

INSTALLER/ CONSUMER SAFETY INFORMATION

PLEASE READ THIS MANUAL BEFORE INSTALLING AND USING APPLIANCE

WARNING!

IF THE INFORMATION IN THIS MANUAL IS NOT FOLLOWED EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.

FOR YOUR SAFETY

Installation and service must be performed by a qualified installer, service agency or the gas supplier.

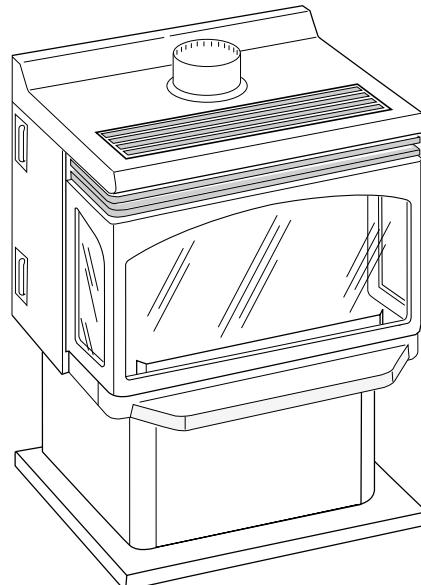
WHAT TO DO IF YOU SMELL GAS:

- Do not try to light any appliance.
- Do not touch any electric switch; do not use any phone in your building.
- Immediately call your gas supplier from your neighbor's phone. Follow the gas suppliers instructions.
- If you cannot reach your gas supplier call the fire department.

DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPORS AND LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE.

MAJESTIC VERMONT Castings

**Freestanding
Direct Vent Fireplaces
Models: RFSDV22,
RFSDV32, RFSDV42**



Homeowner's Installation and Operating Manual



CFM Specialty Home Products

410 Admiral Blvd. • Mississauga, Ontario, Canada L5T 2N6 • 905-670-7777
www.majesticproducts.com • www.vermontcastings.com

INSTALLER: DO NOT DISCARD THIS MANUAL - LEAVE FOR HOMEOWNER

10001028 7/04 Rev. 2

Table of Contents

PLEASE READ THE INSTALLATION & OPERATING INSTRUCTIONS BEFORE USING APPLIANCE.

Thank you and congratulations on your purchase of a CFM Specialty Home Products fireplace

IMPORTANT: Read all instructions and warnings carefully before starting installation. Failure to follow these instructions may result in a possible fire hazard and will void the warranty.

Installation Instructions

| | |
|---|---|
| Important Curing/Burn Information | 3 |
| Locating the Fireplace | 3 |
| Fireplace Dimensions | 4 |
| Clearance to Combustibles | 5 |
| Gas Specifications | 5 |
| Gas Inlet & Manifold Pressures | 5 |
| High Elevations | 5 |
| Preparation | 5 |
| Gas Line Installation | 5 |
| Installation of Remote Switch for RN/RP gas valve | 6 |

General Venting Information

| | |
|---|----|
| General Venting Information - Termination Location | 7 |
| Termination Clearances | 8 |
| General Information on Assembling Vent Pipes | 8 |
| Twist Lock Pipes | 8 |
| How to use the Vent Graph | 9 |
| Vertical Sidewall Applications | 9 |
| Vertical Sidewall Installation | 11 |
| Below Grade Installations (Snorkel) | 12 |
| Vertical Through-the-Roof Applications & Installation | 13 |
| Twist Lock Venting Components | 15 |

Operating Instructions

| | |
|--|----|
| Glass Information | 16 |
| Louvre Removal | 16 |
| Trim Removal | 16 |
| Glass Removal | 16 |
| Glass Cleaning | 17 |
| Installation of Logs & Burner Lava Rock Material | 17 |
| Ceramic Refractory | 18 |
| Flame Adjustment | 18 |
| Temperature Adjustment | 18 |
| Flame Characteristics | 19 |
| Lighting Instructions | 20 |
| Troubleshooting | 21 |

Maintenance

24

Replacement

25

Accessories

28

Mobile Home Instructions

29

Warranty

30

Installation and Operating Instructions

This gas fireplace should be installed by a qualified installer in accordance with local building codes and with current CSA-B149.1 Installation codes for Gas Burning Fireplaces and Equipment and CAN/CSA Z 240.4 Canada.

FOR U.S.A Installations follow local codes and/or the current National Fuel Gas Code. ANSI Z223.1/NFPA 54.

FOR SAFE INSTALLATION AND OPERATION PLEASE NOTE THE FOLLOWING:

- 1 . This fireplace gives off high temperatures and should be located out of high traffic areas and away from furniture and draperies.
2. Children and adults should be alerted to the hazards of the high surface temperatures of this fireplace and should stay away to avoid burns or ignition of clothing.
3. Children should be carefully supervised when they are in the same room as your fireplace.
4. Under no circumstances should this fireplace be modified. Parts removed for servicing should be replaced prior to operating the fireplace again.
5. Installation and any repairs to this fireplace should be carried out by a qualified service person. A professional service person should be contacted to inspect this fireplace annually. Make it a practice to have all of your gas fireplaces checked annually. More frequent cleaning may be required due to excess lint and dust from carpeting, bedding material, etc.
6. Control compartments, burners and air passages in this fireplace should be kept clean and free of dust and lint. Make sure that the gas valve and pilot light are turned off before you attempt to clean this fireplace.
7. The venting system(chimney) of this fireplace should be checked at least once a year and if needed your venting system should be cleaned.
8. Keep the area around your fireplace clear of combustible materials, gasoline and other flammable vapour and liquids. This fireplace should not be used as a drying rack for clothing, nor should Christmas stockings or decorations be hung in the area of it.
9. Under no circumstances should any solid fuels (wood, coal, paper or cardboard etc.) be used in this fireplace.
10. The flow of combustion and ventilation air must not be obstructed in any way.
11. When the fireplace is installed directly on carpeting, vinyl tile or any combustible material other than wood, the fireplace must be installed on a metal or wood panel extending the full width and depth of the fireplace.
12. This fireplace requires adequate ventilation and combustion air to operate properly.
13. This fireplace must not be connected to a chimney flue serving a separate solid fuel burning fireplace.

Proposition 65 Warning: Fuels used in gas, woodburning or oil fired appliances, and the products of combustion of such fuels, contain chemicals known to the State of California to cause cancer, birth defects and other reproductive harm.

California Health & Safety Code Sec. 25249.6

IMPORTANT:

PLEASE REVIEW THE FOLLOWING CAREFULLY

Remove any plastic from trim parts before turning the fireplace ON.

It is normal for fireplaces fabricated of steel to give off some expansion and/or contraction noises during the start up or cool down cycle. Similar noises are found with your furnace heat exchanger or car engine. It is not unusual for your gas fireplace to give off some odor the first time it is burned. This is due to the curing of the paint and any undetected oil from the manufacturing process.

Please ensure that your room is well ventilated - open all windows.

It is recommended that you burn your fireplace for a least six (6) hours the first time you use it. If optional fan kit has been installed, place fan in the "OFF" position during this time.

Locating the Fireplace

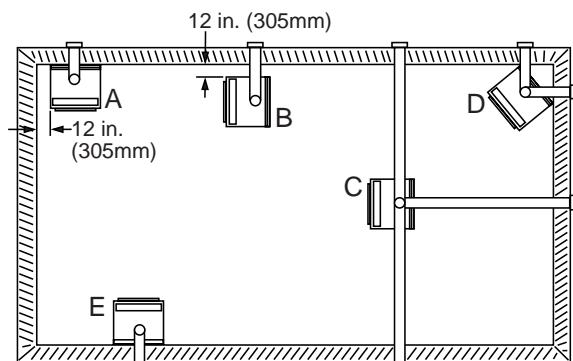


Fig. 1 Locating gas fireplace.

A) *Flat on wall corner

B) *Room divider

C) Island

D) Cross corner

E) Flat on wall

* A & B must maintain a 12" (305mm) clearance between the wall and side glass of fireplace.

 There is a minimum vertical rise required for the venting which varies depending on the application. The maximum horizontal run also has restrictions. Become familiar with the venting instructions starting on page 7, before starting the installation.

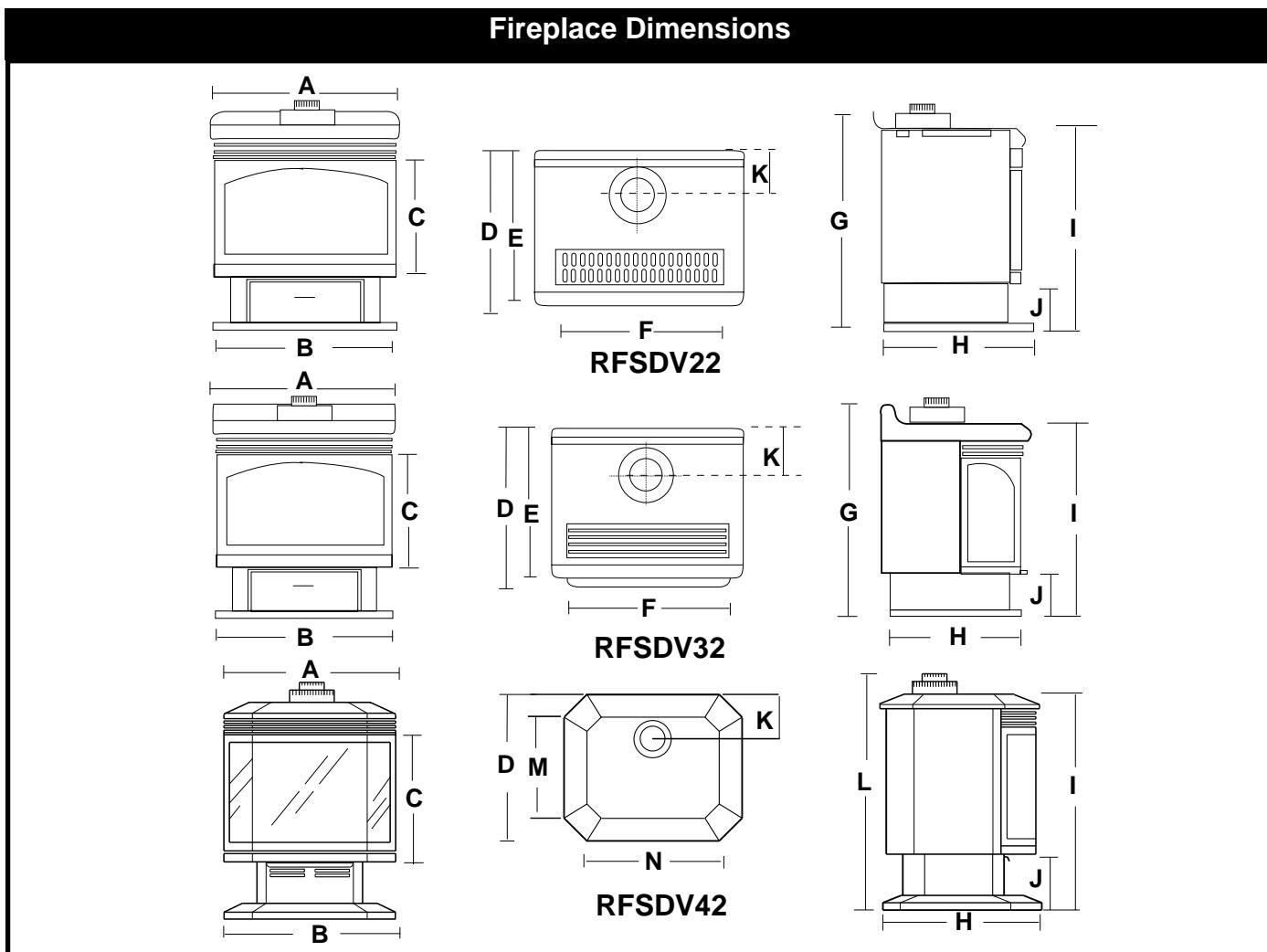


Fig. 2 Fireplace specifications.

| Ref. | RFSDV22 | RFSDV32 | RFSDV42 |
|------|-----------------|-----------------|------------------|
| A | 26" (660mm) | 25" (635mm) | 28 1/4" (717mm) |
| B | 26" (660mm) | 24 1/8" (613mm) | 28 1/4" (717mm) |
| C | 15 1/4" (387mm) | 16" (406mm) | 17 7/8" (454mm) |
| D | 19 1/4" (488mm) | 20" (508mm) | 22 3/4" (578mm) |
| E | 18 5/8" (473mm) | 19" (483mm) | -- -- |
| F | 21" (533mm) | 21" (533mm) | -- -- |
| G | 31 1/2" (800mm) | 31 3/4" (806mm) | -- -- |
| H | 17 3/4" (451mm) | 17 3/4" (451mm) | 22 3/4" (578mm) |
| I | 29 5/8" (752mm) | 29 5/8" (752mm) | 33 5/8" (854mm) |
| J | 9 5/8" (244mm) | 9" (229mm) | 10 5/8" (270mm) |
| K | 6 1/2" (165mm) | 6 1/2" (165mm) | 7" (178mm) |
| L | -- -- | -- -- | 36 3/8" (924mm) |
| M | -- -- | -- -- | 14 3/16" (360mm) |
| N | -- -- | -- -- | 17 3/8" (441mm) |

Clearance to Combustibles

Adequate clearances as listed below must be maintained for servicing and proper operation:

| | |
|-----------|------------------------|
| Back | 0" (0mm) |
| Side | 12" (305mm) |
| Floor | 0" (0mm) |
| Top | 36" (914mm) |
| Corner | 0" to Back Edges (0mm) |
| Vent Pipe | 1" (25mm) |

Gas Specifications

| Model | Fuel | Gas Control | Max. Input B.T.U.H | Min. Input B.T.U.H |
|------------|-------------|-----------------|--------------------|--------------------|
| RFSDV22RN | Natural Gas | Millivolt Hi/Lo | 30,000 | 21,000 |
| RFSDV22RP | Propane Gas | Millivolt Hi/Lo | 30,000 | 22,500 |
| RFSDV22TN | Natural Gas | Thermostatic | 30,000 | 21,000 |
| RFSDV22TP | Propane Gas | Thermostatic | 30,000 | 22,500 |
| RFSDV32RN | Natural Gas | Millivolt Hi/Lo | 30,000 | 21,000 |
| RFSDV32RP | Propane Gas | Millivolt Hi/Lo | 30,000 | 22,500 |
| RFSDV32TN | Natural Gas | Thermostatic | 30,000 | 21,000 |
| RFSDV32TP | Propane Gas | Thermostatic | 30,000 | 22,500 |
| RFSDV32RMH | Nat/Prop | Millivolt Hi/Lo | 30,000 | N/A |
| RFSDV42RN | Natural Gas | Millivolt Hi/Lo | 40,000 | 28,000 |
| RFSDV42RP | Propane Gas | Millivolt Hi/Lo | 37,000 | 27,750 |
| RFSDV42TN | Natural Gas | Thermostatic | 40,000 | 28,000 |
| RFSDV42TP | Propane Gas | Thermostatic | 37,000 | 27,750 |

Gas Inlet and Manifold Pressures

| | Natural | LP (Propane) |
|-------------------|------------|--------------|
| Inlet Minimum | 4.5" w.c. | 11.0" w.c. |
| Inlet Maximum | 14.0" w.c. | 14.0" w.c. |
| Manifold Pressure | 3.5" w.c. | 10.0" w.c. |

This appliance may be installed in an aftermarket permanently located, manufactured (mobile) home, where not prohibited by local codes.

This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases, unless a certified kit is available and used.

RFSDV22 / RFSDV32 / RFSDV42 Certified To

ANSI.Z21.88-2002 / CSA 2.33-2002
Vented Gas Fireplace Heaters

High Elevations

Input ratings are shown in BTU per hour and are certified without deration for elevations up to 4,500 ft. (1,370 m) above sea level. For elevations above 4,500 ft. (1,370 m) in USA, installations must be in accordance with the current ANSI Z223.1 and/ or local codes having jurisdiction.

In Canada, please consult provincial and/ or local authorities having jurisdiction for installations at elevations above 4,500 ft. (1,370 m).

Preparation



The use of wall paper adjacent to this fireplace is not recommended, as the high temperatures given off by this fireplace may adversely effect the binders in the adhesive used to apply the wallpaper.

Before beginning, remove the glass door from the fireplace. Also check to make sure there is no hidden damage to the fireplace. Take a minute and plan out the gas, vent and electrical supply. See Glass Removal Section.

Gas Line Installation



When purging gas line, the front glass must be removed.

The gas pipeline can be brought in through the rear of the fireplace as well as the bottom. Knockouts are provided on the bottom behind the valve to allow for the gas pipe installation and testing of any gas connection. **It is most convenient to bring the gas line in from the rear right side of the valve, as this allows fan installation or removal without disconnecting the gas line.**

The gas line connection can be made with properly tinned 3/8" copper tubing, 3/8" rigid pipe or an approved flex connector. Since some municipalities have some additional local codes, it is always best to consult your local authority and the CSA- B149.1 installation code.

For U.S. Installations consult the current National Fuel Gas Code, ANSI Z223.1.



Always check for gas leaks with a mild soap and water solution. Do not use an open flame for leak testing.

The gas control is equipped with a captured screw type pressure test point, therefore it is not necessary to provide a 1/8" test point up stream of the control.

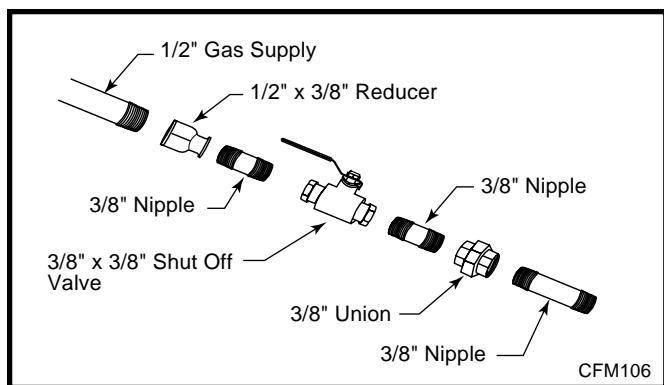


Fig. 3 Typical gas line installation.

When using copper or flex connector use only approved fittings. Always provide a union when using back iron pipe so that gas line can be easily disconnected for burner or fan servicing. (Fig. 3) Refer to gas specification chart for pressure details and ratings.

The fireplace valve must not be subjected to any test pressures exceeding 1/2 psi. Isolate or disconnect this or any other gas appliance control from the gas line when pressure testing.



Do not use this fireplace if any part of this fireplace has been under water. Immediately call a qualified service technician to inspect the heater and to replace any part control which has been under water.

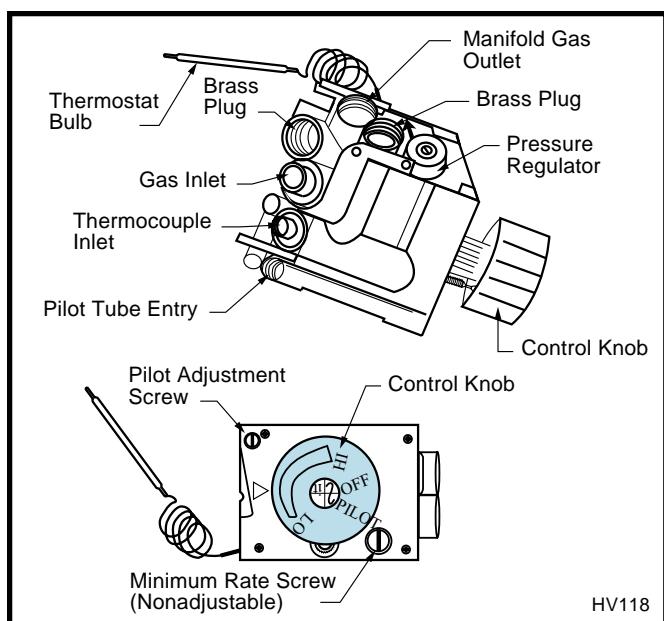


Fig. 4 On fireplaces equipped with Eurosit 630 gas valves there are brass plugs in two of the holes. **These plugs are not to be removed.** The gas inlet hole has a plastic cap in it. Remove the plastic cap and connect your gas supply line at this point.

Installation of Remote Switch for RN/RP Gas Valve

Install on/off switch assembly on either the rear right or left side of the Fireplace.

1. Remove the screw at the back of the cabinet top either on the left or the right side of the fireplace.
2. Position switch assembly onto the back of the fireplace, then fasten two screws as shown in Figure 6.
3. Attach wiring under the clips on the rear casing (Fig. 6) and install wiring through the rear opening of the fireplace before connecting to the valve as shown in Figure 5.

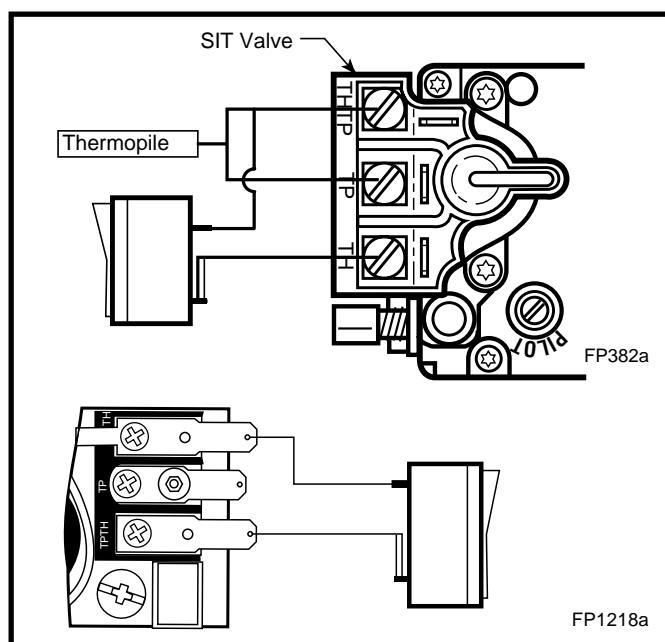


Fig. 5 On/Off switch or millivolt thermostat.

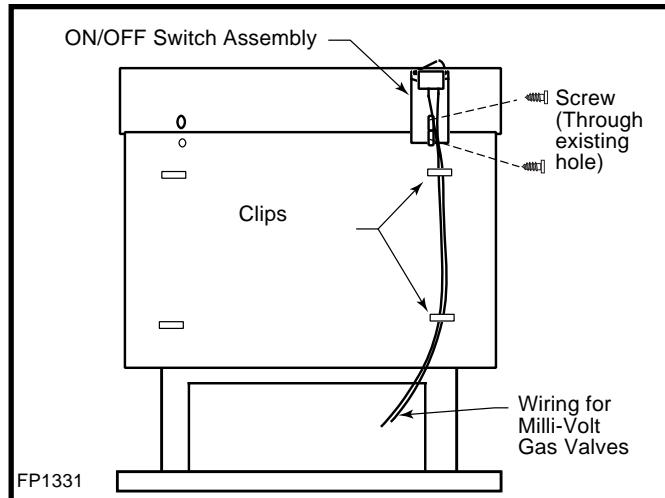
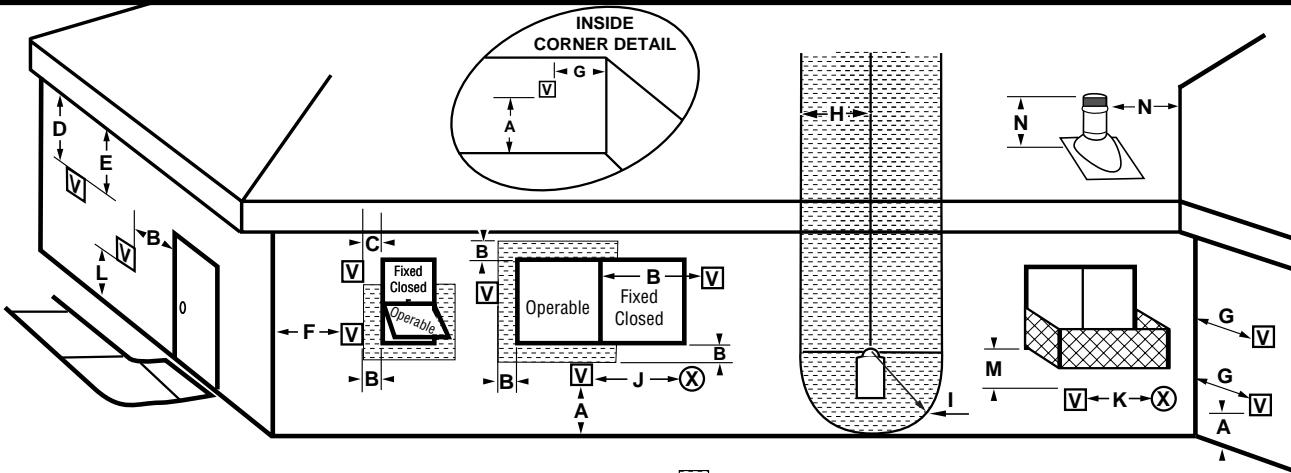


Fig. 6 Secure wiring under clips on the rear casing.

General Venting Information - Termination Location



CFM145a

VENT TERMINATION AIR SUPPLY INLET AREA WHERE TERMINAL IS NOT PERMITTED

| | Canadian Installations ¹ | US Installations ² |
|--|--|---|
| A = Clearance above grade, veranda, porch, deck, or balcony | 12" (30cm) | 12" (30cm) |
| B = Clearance to window or door that may be opened | 6" (15cm) for appliances < 10,000Btuh (3kW), 12" (30cm) for appliances > 10,000 Btuh (3kW) and < 100,000 Btuh (30kW), 36" (91cm) for appliances > 100,000 Btuh (30kW) | 6" (15cm) for appliances < 10,000 Btuh (3kW), 9" (23cm) for appliances > 10,000 Btuh (3kW) and < 50,000 Btuh (15kW), 12" (30cm) for appliances > 50,000 Btuh (15kW) |
| C = Clearance to permanently closed window | 12" (305mm) recommended to prevent window condensation | 12" (305mm) recommended to prevent window condensation |
| D = Vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 2 feet (610mm) from the center line of the terminal | 18" (458mm) | 18" (458mm) |
| E = Clearance to unventilated soffit | 12" (305mm) | 12" (305mm) |
| F = Clearance to outside corner | see next page | see next page |
| G = Clearance to inside corner (see next page) | see next page | see next page |
| H = Clearance to each inside of center line extended above meter/regulator assembly | 3' (914mm) within a height of 15' (4.6m) above the meter/regulator assembly | 3' (914mm) within a height of 15' (4.6m) above the meter/regulator assy |
| I = Clearance to service regulator vent outlet | 3' (914mm) | 3' (914mm) |
| J = Clearance to nonmechanical air supply inlet to building or the combustion air inlet to any other appliances | 6" (15cm) for appliances < 10,000 Btuh (3kW), 12" (30cm) for appliances > 10,000 Btuh (3kW) and < 100,000 Btuh (30kW), 36" (91cm) for appliances > 100,000 Btuh (30kW) | 6" (15cm) for appliances < 10,000 Btuh (3kW), 9" (23cm) for appliances > 10,000 Btuh (3kW) and < 50,000 Btuh (15kW), 12" (30cm) for appliances > 50,000 Btuh (15kW) |
| K = Clearance to a mechanical air supply inlet | 6' (1.83m) | 3' (91cm) above if within 10' (3m) horizontally |
| L = Clearance above paved sidewalk or paved driveway located on public property | 7' (2.13m)† | 7' (2.13m)† |
| M = Clearance under veranda, porch, deck or balcony | 12" (30cm)‡ | 12" (30cm)‡ |
| N = Clearance above a roof shall extend a minimum of 24" (610mm) above the highest point when it passes through the roof surface, and any other obstruction within a horizontal distance of 18" (450mm). | | |

1 In accordance with the current CSA-B149 Installation Codes

2 In accordance with the current ANSI Z223.1/NFPA 54 National Fuel Gas Codes

† A vent shall not terminate directly above a sidewalk or paved driveway which is located between two single family dwellings and serves both dwellings

‡ only permitted if veranda, porch, deck or balcony is fully open on a minimum 2 sides beneath the floor:

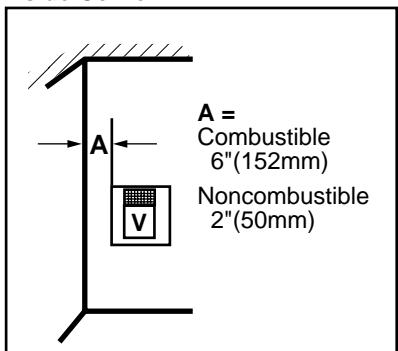
NOTE: 1. Local codes or regulations may require different clearances.

2. The special venting system used on Direct Vent Fireplaces are certified as part of the appliance, with clearances tested and approved by the listing agency.

Termination Clearances

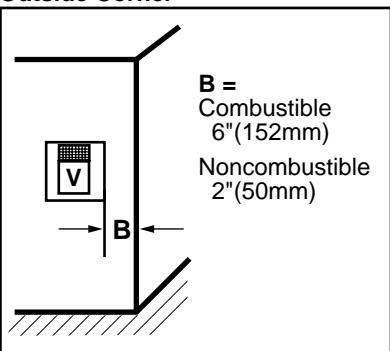
Termination clearances for buildings with combustible and noncombustible exteriors.

Inside Corner



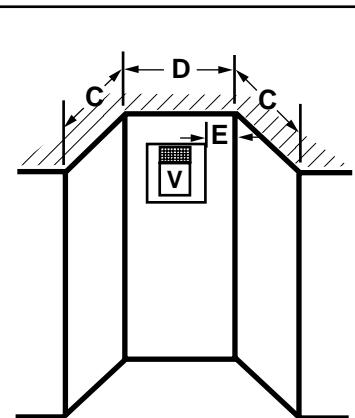
A = Combustible 6"(152mm)
Noncombustible 2"(50mm)

Outside Corner



B = Combustible 6"(152mm)
Noncombustible 2"(50mm)

Recessed Location

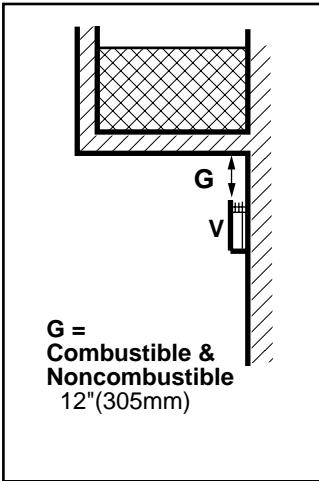


C = Maximum depth of 48" (1219mm) for recessed location.

D = Minimum width for back wall of a recessed location.
Combustible 38"(965mm)
Noncombustible 24"(610mm)

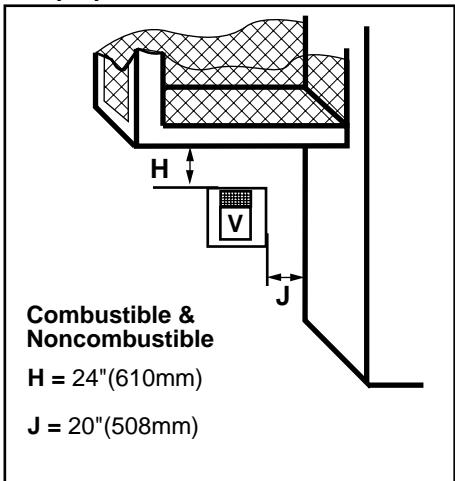
E = Clearance from corner in recessed location.
Combustible 6"(152mm)
Noncombustible 2"(50mm)

Balcony - with no side wall



G = Combustible & Noncombustible 12"(305mm)

Balcony - with perpendicular side wall



Combustible & Noncombustible
H = 24"(610mm)
J = 20"(508mm)

584-15

General Information Assembling Vent Pipes

Canadian Installations:

The venting system must be installed in accordance with the current CSA-B149.1 installation code.

U.S.A. Installations:

The venting system must conform with local codes and/or the current National Fuel Gas Code, ANSI Z223.1/NFPA 54.

Only venting components manufactured by CFM Corporation may be used.

Twist Lock Pipes

When using CFM Corporation twist lock pipe it is not necessary to use sealant at the twist lock joints.

The only areas of the venting that need to be sealed with high temperature silicone sealant are the collars on the fireplace and termination, and the sliding joint of any telescopic vent pipes used in the system.

To join the twist lock pipes together, simply align the beads of the male end with the grooves of the female end, then while bringing the pipes together, twist the pipe until the flange on the female end contacts the external flange on the male end.

It is recommended that you secure the joints with 3 sheet metal screws, however this is not mandatory with twist lock pipe.

To make it easier to assemble the joints we suggest putting a lubricant (Vaseline or similar) on the male end of the twist lock pipe.

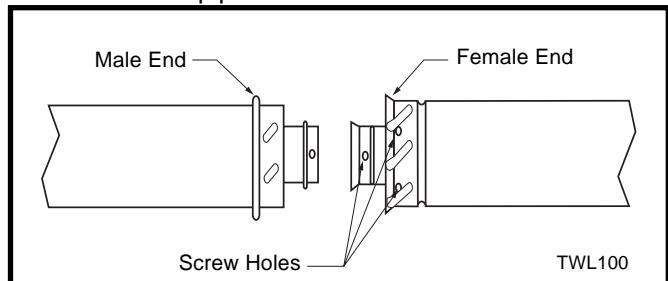


Fig. 7 Twist-lock pipe joints.

10001028

How to Use the Vent Graph

1. Determine the height of the centre of the horizontal vent pipe exiting through the outer wall. Using this dimension on the Sidewall Vent Graph (Fig. 8 or 9), locate the point it intersects with the slanted graph line.
2. From the point of this intersection, draw a vertical line to the bottom of the graph.
3. Select the indicated dimension, and position the fireplace in accordance with same.

EXAMPLE A:

If the vertical dimension from the floor of the fireplace is 11' (335cm) the horizontal run to the face of the outer wall must not exceed 14' (427cm).

EXAMPLE B:

If the vertical dimension from the floor of the fireplace is 7' (214cm), the horizontal run to the face of the outer wall must not exceed 8.5' (259cm).

For RFSDV22 & RFSDV32

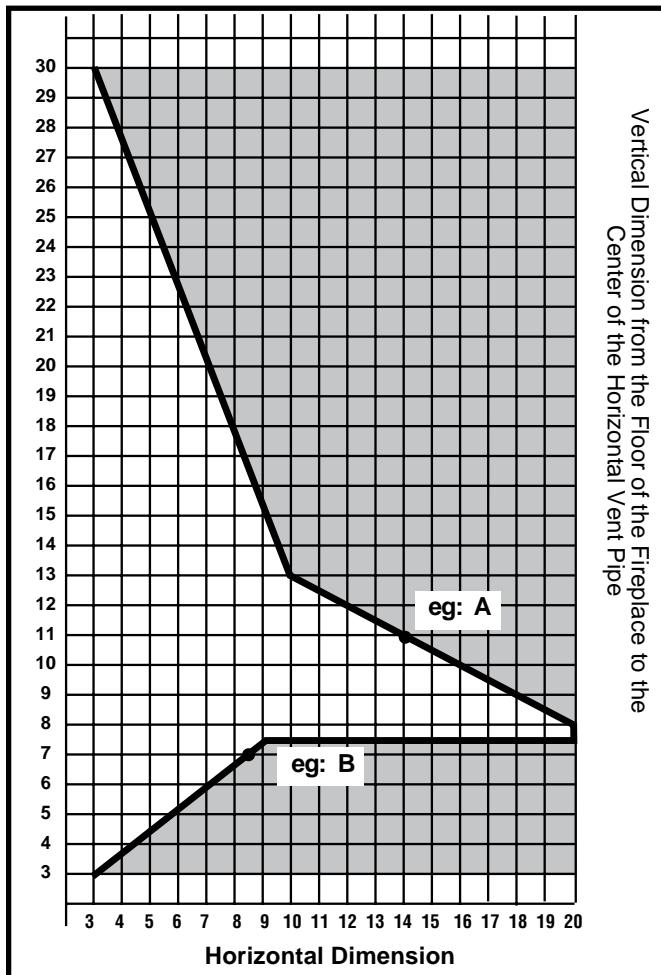


Fig. 8 Sidewall venting graph for use with RFSDV22/32.

EXAMPLE C: (only RFSDV42)

If the vertical dimension from the floor of the fireplace is 7' (214mm), the horizontal run to the face of the outer wall must not exceed 8' (244cm).

Refer to Page 12 for venting requirements for snorkels.

For RFSDV42

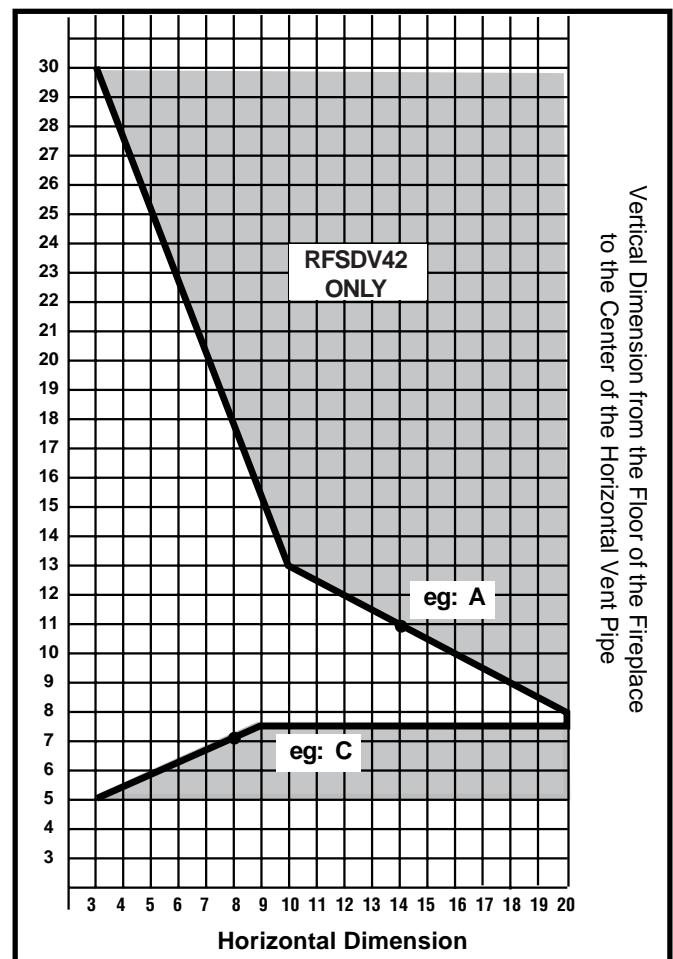


Fig. 9 Sidewall venting graph for use with RFSDV42 only.

Vertical Sidewall Applications

Since it is very important that the venting system maintain its balance between the combustion air intake and the flue gas exhaust, certain limitations as to vent configurations apply and must be strictly adhered to.

The graph showing the relationship between vertical and horizontal side wall venting will help to determine the various lengths allowable. (Fig. 8 or 9)



Minimum clearance between vent pipes and combustible materials is 1" (25mm) on top, bottom and sides unless otherwise noted.

When vent termination exits through foundations less than 20" (508mm) below siding outcrop, the vent pipe must flush up with the siding. A 7DVSS must also be used.

It is always best to locate the fireplace in such a way that minimizes the number of offsets and horizontal vent length.

The horizontal vent run refers to the total length of vent pipe from the flue collar of the fireplace to the face of the **outer wall**.

Horizontal plane means no vertical rise exists on this portion of the vent assembly.

- The maximum number of 90° elbows per side wall installation is three (3).
- **For RFSDV22 & RFSDV32 the maximum horizontal run off a minimum 12" (305mm) vertical rise is 3' (914mm). (Fig. 10)**
- **For the RFSDV42 a minimum of 24" (610mm) vertical rise is required for a maximum horizontal run of 3'(914mm). (Fig. 10)**

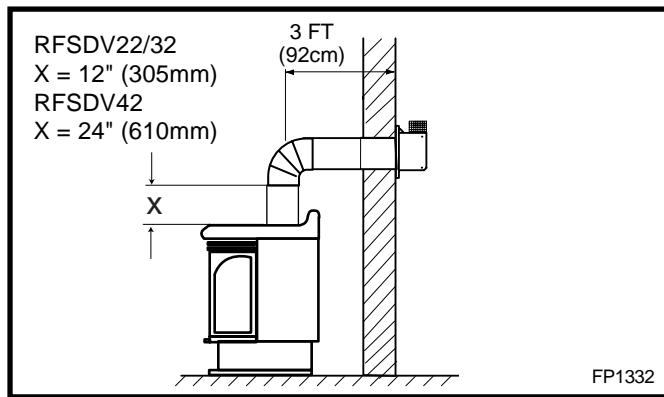


Fig. 10 Maximum horizontal run with vertical rise.

- **If a 90° elbow is used in the horizontal vent run (level height maintained) the maximum horizontal vent length is reduced by 36" (914mm). (Fig. 10) This does not apply if the 90° elbows are used to increase or redirect a vertical rise. (Fig. 11)**

Example: According to the chart the maximum horizontal vent length is 20' (6m) and if a 90° elbow is required in the horizontal vent it must be reduced to 17' (5.2m).

(Fig. 11 Dimension A plus B must not be greater than 17' (5.2m))

- The maximum number of 45° elbows permitted per side wall installation is two (2). These elbows can be installed in either the vertical or horizontal run. (Fig. 13)
- **For each 45° elbow installed in the horizontal run, the length of the horizontal run MUST be reduced by 18" (45cm). This does not apply if the 45° elbows are installed on the vertical part of the vent system.**

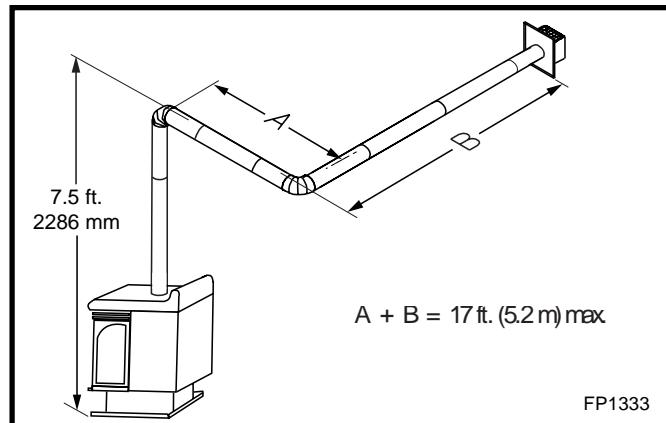


Fig. 11 Horizontal run reduction.

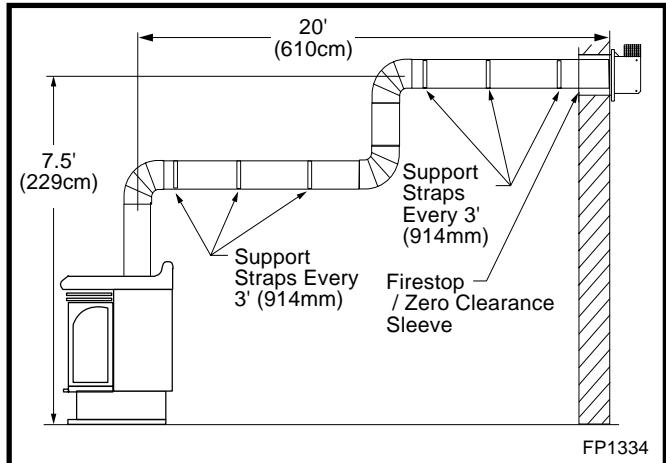


Fig. 12 Support straps for horizontal runs.

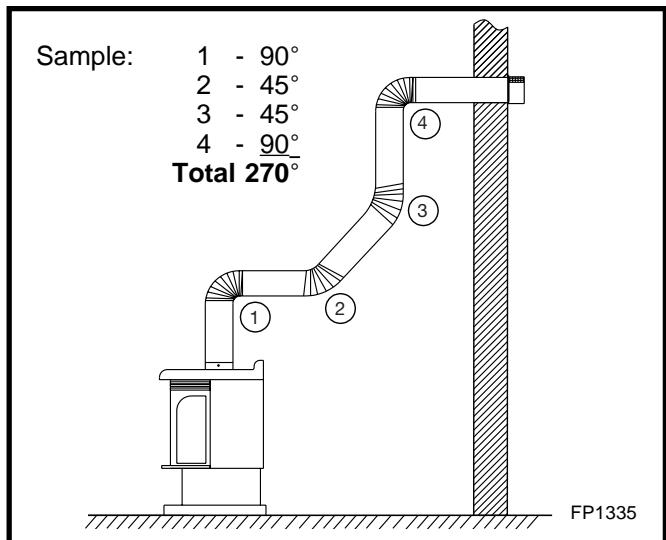


Fig. 13 Maximum number of elbows.

- The maximum number of elbow degrees in a system is 270°. (Fig. 13)

Vertical Sidewall Installation

Step 1

Locate the vent opening on the wall. It may be necessary to first position the fireplace and measure to obtain hole location. Depending on whether the wall is combustible or noncombustible, cut opening to correct size. (Fig. 14) For combustible walls, first frame in opening.

Combustible Walls: Cut a $9\frac{3}{8}''$ x $9\frac{3}{8}''$ (240mm x 240mm) hole through the exterior wall and frame as shown. (Fig. 14)

Noncombustible Walls: Hole opening must be $7\frac{1}{2}''$ (190mm) in diameter.

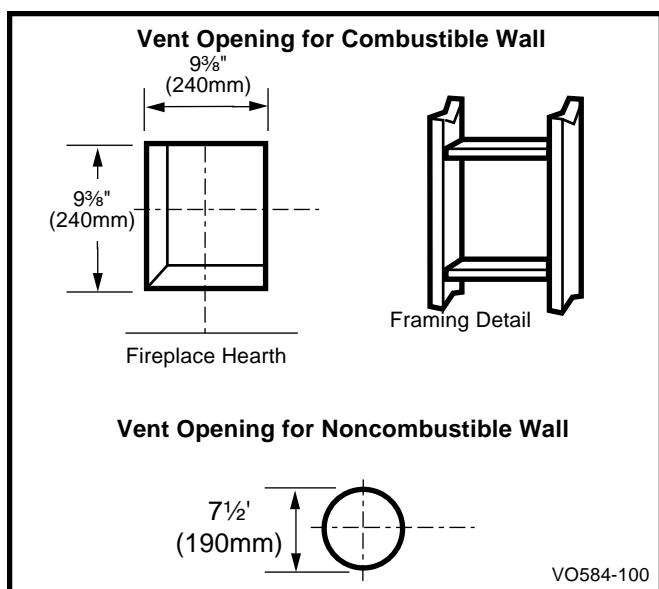


Fig. 14 Locate vent opening on wall.

Step 2

Measure wall thickness and cut zero clearance sleeve parts to proper length (MAXIMUM 12"). Assemble sleeve and attach to firestop with #8 sheet metal screws (supplied). Install firestop assembly. (Fig. 15)



Zero clearance sleeve is only required for combustible walls.

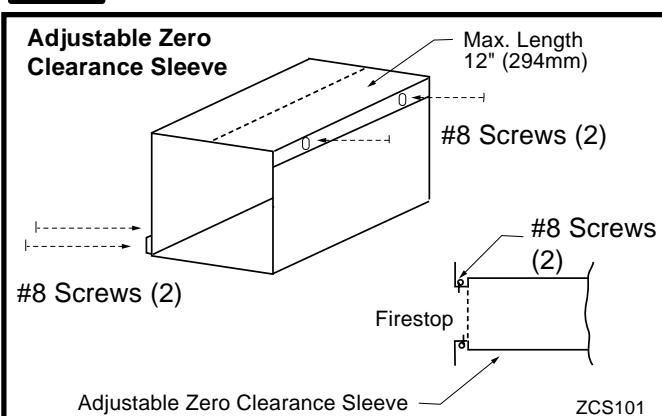


Fig. 15 Adjustable zero clearance sleeve.

10001028

Step 3

Place fireplace into position. (Fig. 16) Measure the vertical length (X) required from the base of the flue collars to the center of the wall opening.

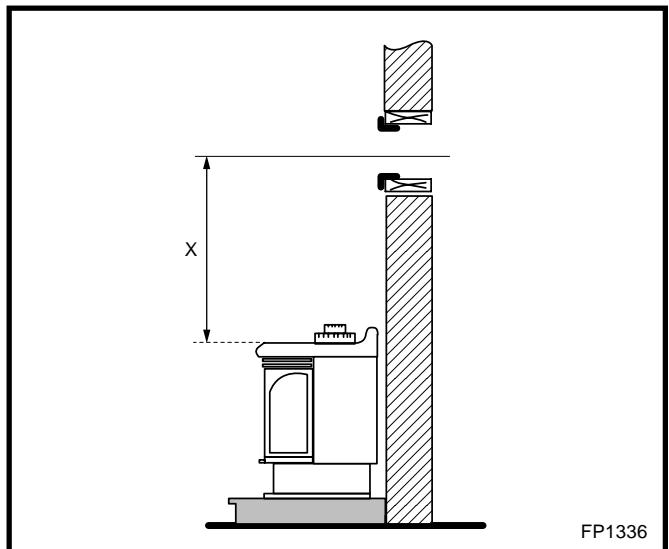


Fig. 16 Vertical length requirement.

Step 4

Apply a bead of silicone to the inner and outer flue collars of the fireplace (Fig. 17) and using appropriate length of pipe section(s), attach to fireplace with three (3) screws. Follow with the installation of the inner and outer elbow, again secure joints as described on Pages 8 and 9.

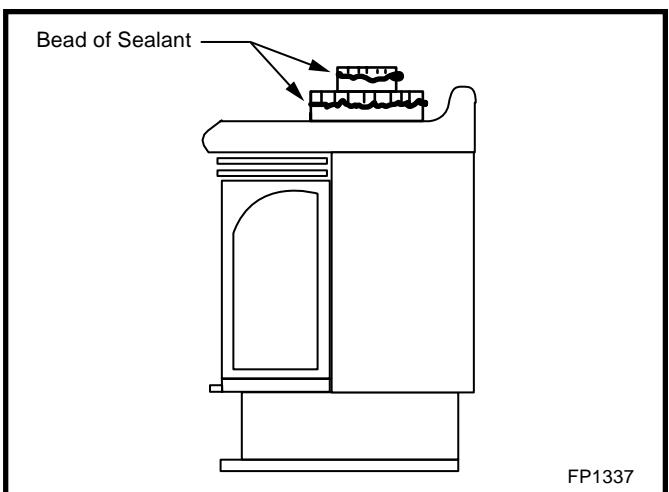


Fig. 17 Apply a bead of silicone to the inner and outer flue collars.

Step 5

Measure the horizontal length requirement including a 2" overlap, i.e. from the elbow to the outside wall face plus 2" (or the distance required if installing a second 90° elbow). (Fig. 18)

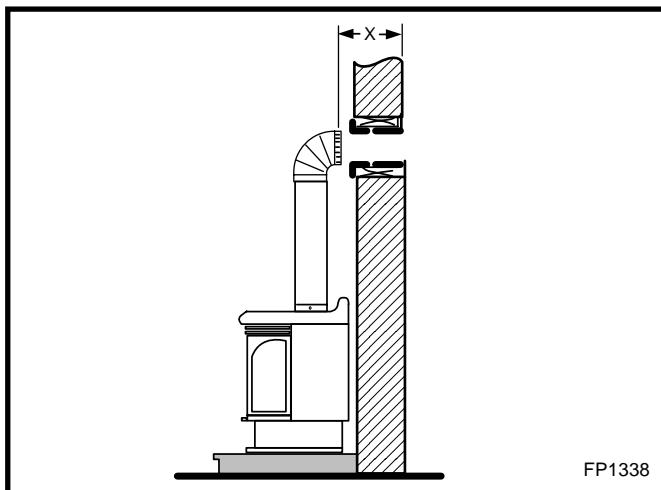


Fig. 18 Measure horizontal venting length plus 2".

Step 6

NOTE: If using the charcoal wall plate, Part #52202-CG, and collar, part #52203CG, put them in place before putting the pipe sections through the wall.

Use appropriate length of pipe sections - telescopic or fixed - and install. The sections which go through the wall are packaged with the starter kit, and can be cut to suit if necessary. (Fig. 19)



Sealing vent pipe and firestop gaps with high temperature sealant will restrict cold air being drawn in around the fireplace.

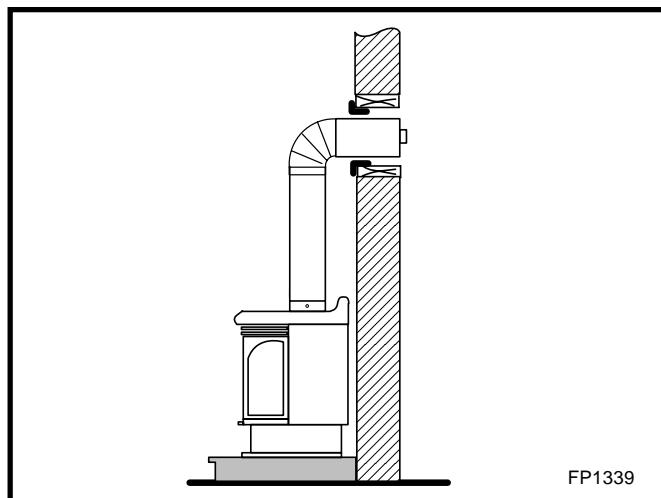


Fig. 19 Use appropriate length pipe sections.

Step 7

Apply high temperature sealant to 4" and 7" collars or the termination one inch away from crimped end.

Guide the vent terminations 4" and 7" collars into their respective vent pipes. Secure the termination to the wall with screws provided and caulk around the wall plate to weatherproof.



Support horizontal pipes every 36" (914mm) with metal pipe straps.

Check fireplace to make sure it is levelled and properly positioned.

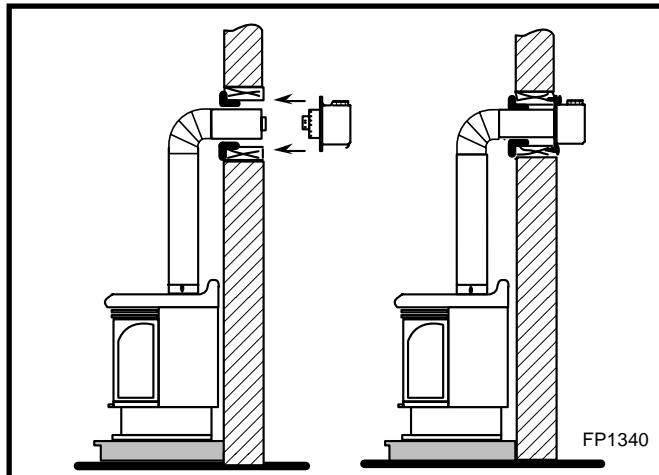


Fig. 20 Attach vent termination.

Below Grade Installations

When it is not possible to meet the required vent terminal clearances of 12" (305mm) above grade level a starter vent kit is recommended. It allows installation depth of down to 7" (178mm) below grade level. The 7" is measured from the center of the horizontal vent pipe as it penetrates through the wall.



If venting system is installed below ground, we recommend a window well with adequate and proper drainage.

Ensure sidewall venting clearances are observed.

If installing a snorkel a minimum 24" vertical rise is necessary. The maximum horizontal run with the 24" vertical pipe is 36" (915mm). This measurement is taken from the collar of the fireplace to the face of the exterior wall. See vent graph for extended horizontal run if the vertical exceeds 24".

1. Establish vent hole through the wall. (Fig.14)
2. Remove soil to a depth of approximately 16" below base of snorkel. Install drain pipe. Install window well (not supplied). Refill hole with 12" of coarse gravel leaving a clearance of approximately 4" below snorkel. (Fig. 21)
3. Install vent system.
4. Ensure a watertight seal is made around the vent pipe coming through the wall.
5. Apply high temperature sealant caulking (supplied) around the 4" and 7" snorkel collars.
6. Slide into vent pipe and secure to the wall.
7. Level the soil so as to maintain a 4" clearance below snorkel. (Fig. 21)



Do Not Back Fill Around Snorkel. Soil Should Not Be Less Than 4" Below Snorkel.

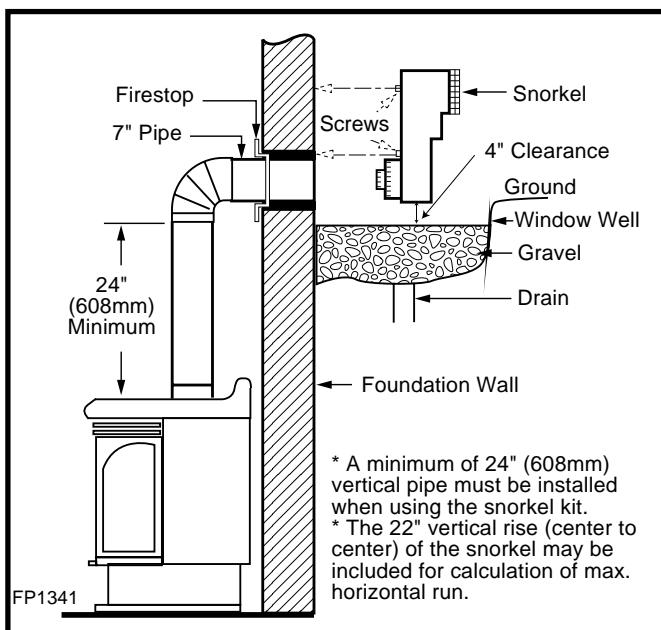


Fig. 21 Below grade installation.

If the foundation is recessed, use recess brackets (not supplied) for securing lower portion of the snorkel. Fasten brackets to wall first and then secure to snorkel with self drilling #8 x 1/2 sheet metal screws. It will be necessary to extend the vent pipes out as far as the protruding wall face. (Fig. 22)

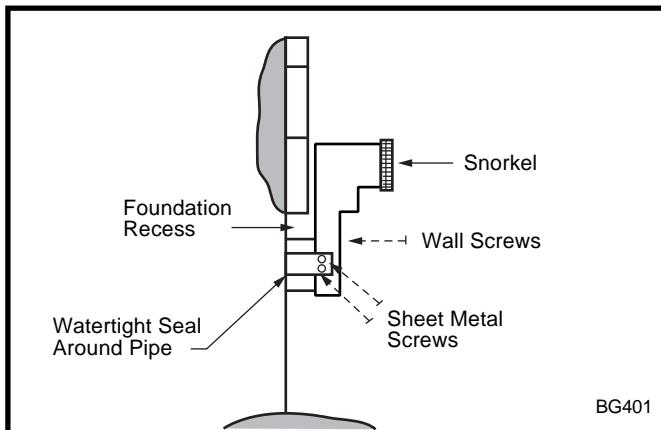


Fig. 22 Snorkel installation, recessed foundation.

Vertical Through-the-Roof Applications

This Gas Fireplace has been approved for,

- Vertical installations up to 40 feet (12m) in height. Up to a 10 ft. horizontal vent run can be installed within the vent system using a maximum of two 90° elbows. (Fig. 23)
- Up to two 45° elbows may be used within the horizontal run. For each 45° elbow used on the horizontal level the maximum horizontal length must be reduced by 18".

Example: Maximum horizontal length

| | | | |
|---|---|------------|----------------|
| 0 | - | 45° elbows | 10 ft. (3m) |
| 1 | - | 45° elbows | 8.5 ft. (2.6m) |
| 2 | - | 45° elbows | 7 ft. (2m) |

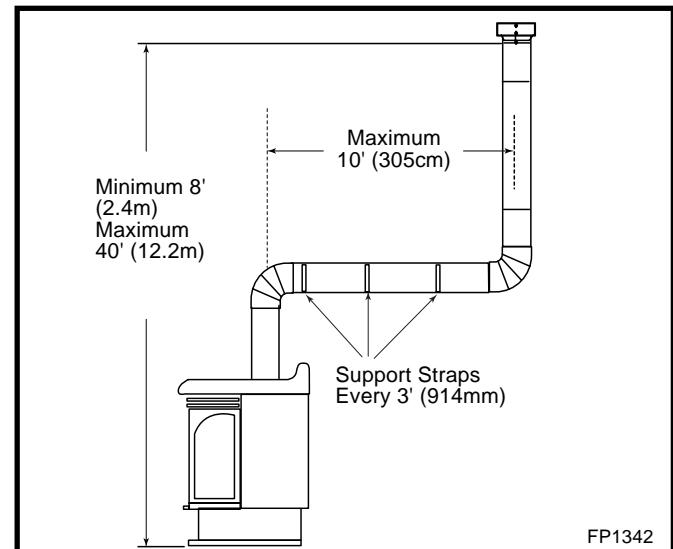


Fig. 23 Vertical through the roof requirements.

- A minimum of an 8 ft. vertical rise.
- Two sets of 45 degree elbow offsets within these vertical installations. From 0 to a maximum of 8 ft. of vent pipe can be used between elbows. (Fig. 24)
- 7DVCS must be used to support offsets. (Fig. 25) This application will require that you first determine the roof pitch and use the appropriate starter kit. (See Venting Components List)
- The minimum height of the vent above the highest point of penetration through the roof is 2 feet. (Fig. 26)**

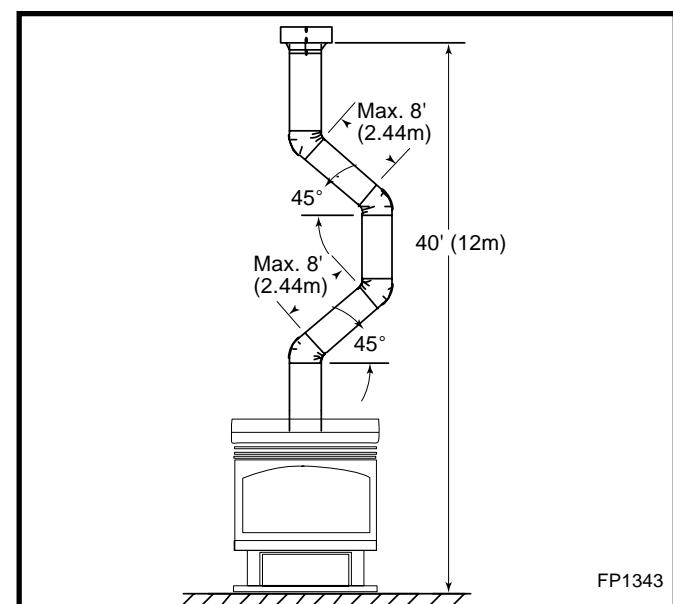


Fig. 24 Typical offset installation.

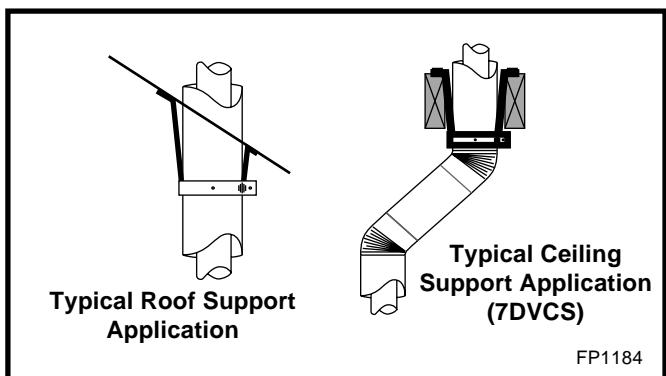


Fig. 25 Venting supports.

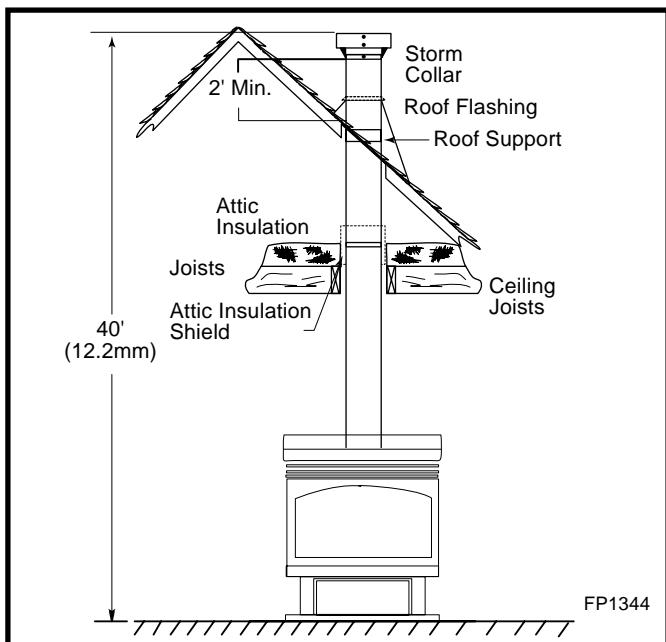


Fig. 26 Typical straight up installation.

Vertical Through-the-Roof Installation

1. Locate your fireplace.
2. Plumb to centre of the (4") flue collar from ceiling above and mark position.
3. Cut opening equal to 9 $\frac{1}{8}$ " x 9 $\frac{1}{8}$ " (240mm x 240mm).
4. Proceed to plumb for additional openings through the roof. In all cases, the opening must provide a minimum of 1 inch clearance to the vent pipe, i.e., the hole must be at least 9 $\frac{1}{8}$ " x 9 $\frac{1}{8}$ " (240mm x 240mm).
5. Place fireplace into position.
6. Place firestop(s) #7DVFS or Attic Insulation Shield #7DVAIS into position and secure. (Fig. 27)
7. Install roof support (Fig. 25) and roof flashing making sure upper flange of flashing is below the shingles. (Fig. 27)
8. Install appropriate pipe sections until above the flashing. (Fig. 27)

9. Install storm collar and seal around the pipe.
10. Add additional vent lengths for proper height. (Fig. 26)
11. Apply high temperature sealant to 4" and 7" collars of vertical vent termination and install.

If there is a room above ceiling level, firestop spacer must be installed on both the bottom and the top side of the ceiling joists. If an attic is above ceiling level a 7DVAIS (Attic Insulation Shield) must be installed. (Fig. 27)

The enlarged ends of the vent section always face downward. (Fig. 28)

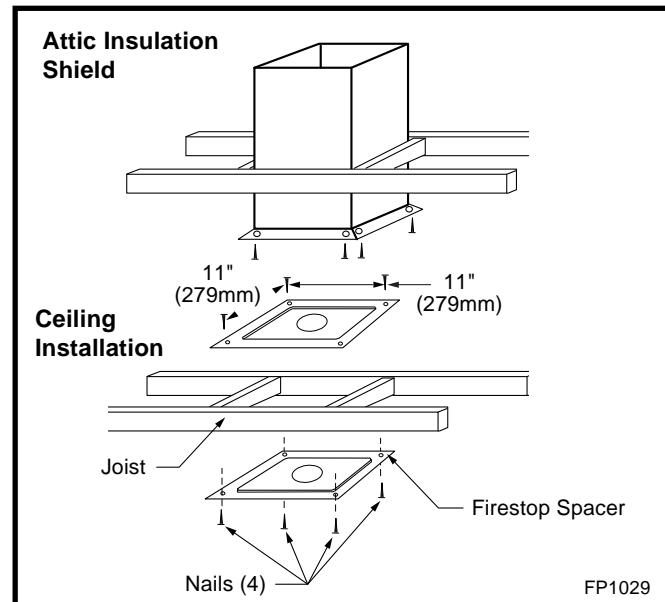


Fig. 27 Place firestop spacer(s) and secure.

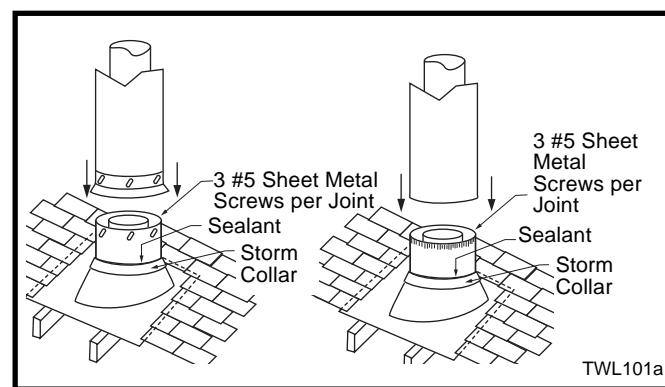
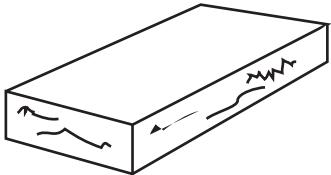
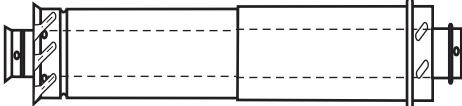
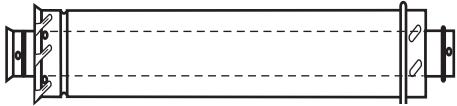
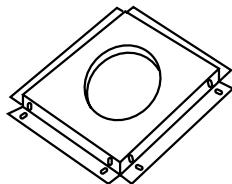
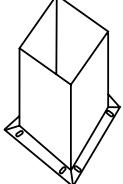


Fig. 28 Roof flashing.

Twist Lock Venting Components

| | |
|---|---|
|  | <p>Starter Kit - Model 7TDVSK - Sidewall Venting Starter Kit - Model 7TDVSKV - Vertical Venting for 7TDVSKV-A order 1/12 to 6/12 roof pitch for 7TDVSKV-B order 7/12 to 12/12 roof pitch for 7TDVSKV-F order flat roof Starter Kit - Model 7TDVSKS - Snorkel Kit for Below Grade Installation</p> |
|  | <p>45° elbow kit 7DVT45 for Vertical Installation Offsets</p> |
|  | <p>90° transition elbow kit 7TDVRT90 for Vertical Sidewall Applications or thru-the-roof.</p> |
|  | <p>Telescopic vent sections 7TDVP1218 - 12" to 18" adjustable length 7TDVP3566 - 35" to 64" adjustable length</p> |
|  | <p>Pipe sections for vertical or horizontal venting Model 7TDVP8" Model 7TDVP12" Model 7TDVP24" Model 7TDVP36" Model 7TDVP48"</p> |
|  | <p>Firestop Spacer Model 7DVFS</p> |
|  | <p>Attic Insulation Shield Model 7DVAIS</p> |
|  | <p>Vertical/Horizontal Combination Offset Support Model 7DVCS</p> |

Operating Instructions

Glass Information



Only glass approved by CFM Specialty Home Products may be used for replacement.

- The use of substitute glass will void all product warranties.
- Care must be taken to avoid breakage of the glass.
- Under no circumstances should this fireplace be operated without the front glass or with a broken glass.
- Replacement of the glass (with gasket) as supplied by the manufacturer should be done by a licenced qualified service person.



For the RFSDV42 both front bay window glass and rear window glass need to be installed for proper performance. Under no circumstance should this fireplace be operated without the rear window glass or with broken glass. Replacement of the glass (with gasket) as supplied by the manufacturer should be done by a licensed qualified person.

Louvre Removal

RFSDV22

Remove the front louvre assembly by lifting up and outward on the assembly.

RFSDV32

To remove louvres first remove the two (2) screws (Fig. 29) fastening the louvre assembly to the fireplace. Lift the louvre assembly straight out sliding the back guides out of the fireplace body. (To reinstall, reverse).

RFSDV42

The top louvre is assembled with the bay Window Frame and is not required to be removed.

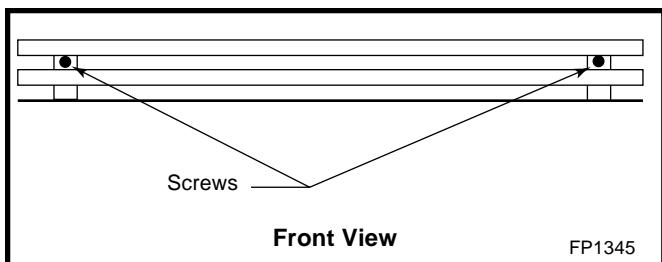


Fig. 29 RFSDV32 louvre removal.

Trim Removal

RFSDV22

1. Remove frame window brass trim by lifting up and out.
2. Remove decorative cover, which was at the bottom of the frame window trim by loosening two (2) nuts on the underside of the cover.

RFSDV32

1. Remove the two (2) outer 3/8" nuts holding the frame window brass trim in place. (Fig. 30)
2. Remove the frame window brass trim by moving it straight forward.

RFSDV42

Remove trim Bay Window, top and bottom, by pulling them from the unit. They are held with magnets.

Glass Removal

RFSDV22

1. Remove frame window brass trim (See Trim Removal section)
2. Remove remaining bottom 3/8" nut at the bottom of the frame window.
3. Remove frame window by pulling it forward and up.

RFSDV32

1. Remove frame window brass trim (See Trim Removal section)
2. Remove remaining bottom 3/8" nut at the bottom of the frame window.
3. Remove 3/8" nut from each side of the frame window. (Fig. 30)
4. Remove frame window by pulling it forward and up.

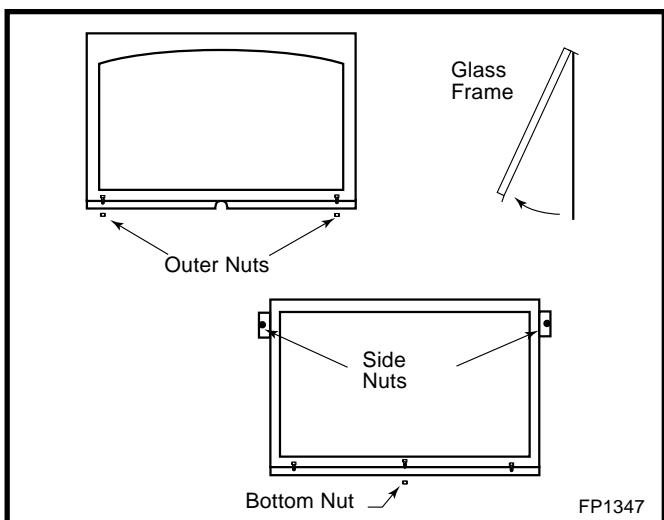


Fig. 30 Glass removal.

RFSDV42

1. Remove both Bay Window brass trims (See Trim Removal section).
2. Open the two clamps (Fig. 31) underneath the Bay Window that holds the Bay Window Frame and Glass Frame.
3. Lift and unhook the Bay Window assembly at the top.
4. Lift and unhook the Glass Frame at the top.

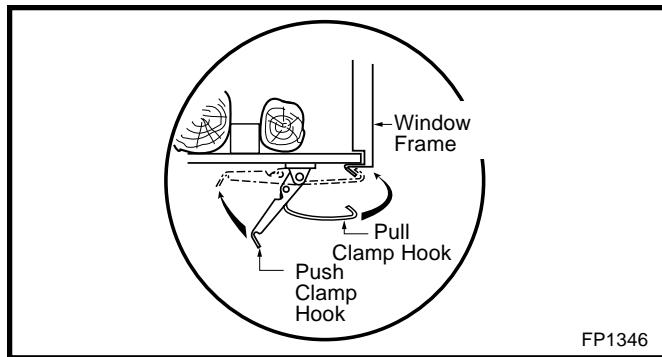


Fig. 31 RFSDV42 glass removal.

Glass Cleaning

It will be necessary to clean the glass periodically. During start-up condensation, which is normal, forms on the inside of the glass and causes lint, dust and other airborne particles cling to the glass surface. Also initial paint curing may deposit a slight film on the glass. It is therefore recommended that the glass be cleaned two or three times with a non-ammonia household cleaner and warm water (we recommend gas fireplace glass cleaner). After that the glass should be cleaned two or three times during each heating season depending on the circumstances present.



Clean glass after first two weeks of operation.

Do not clean glass when hot.

Do not use abrasive cleaners.

Do not strike or slam the glass.

Installation of Logs & Burner Lava Rock Material**RFSDV22, RFSDV32 (Fig. 32)**

1. Remove front glass. (See "Glass Removal" section)
2. Remove logs from packaging.
3. Place rear log (KR4) on rear bracket (ensure log is seated properly, leveled and centered to the unit), so it will not move from side to side and it is firmly positioned on the bracket.
4. Slip front ember log (KR1) down in the front deflector.

5. Place front left log (KR2) on top burner, left side. Use log's bottom holes to locate it into the left bracket log locator studs.
6. Place front right log (KR3) on top of burner, right side. Use log's bottom holes to locate it into the right bracket log locator studs.
7. Place small lava rocks and ember material on top of burner. (See Fig. 32 for proper location).
8. Place top left log (KR5) onto locator notches. Ensure log is secure.
9. Place top right log (KR6) onto locator notches. Ensure log is secure.



Top logs must be placed properly into notches

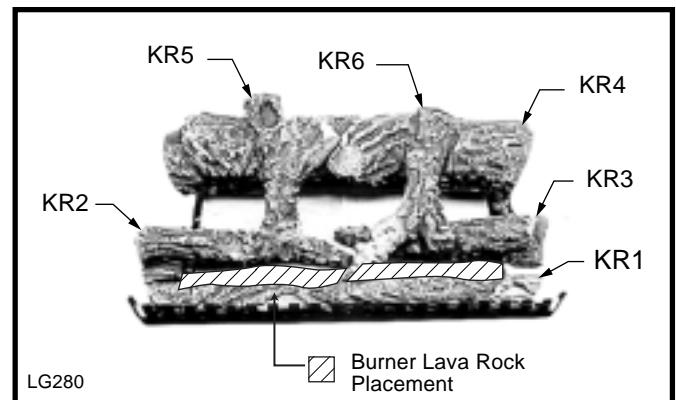


Fig. 32 RFSDV22/32 logs and burner lava rock placement.

RFSDV42 (Fig. 33)

1. Remove bay window assembly and glass frame (see "Glass Frame Removal" section).
2. Remove logs from packaging.
3. Place rear log (SR4) on rear bracket. Ensure log is seated properly, leveled and centered to the unit, so it will not move from side to side and it is firmly positioned on the bracket.
4. Slip front emberlog (SR1) down in the front deflector.
5. Place front left log (SR2) on top of burner, left side. Use log's bottom holes to locate it into the left bracket log locator studs.
6. Place front right log (SR3) on top of burner, right side. Use log's bottom holes to locate it into the right bracket log locator studs.
7. Place burner lava rock on top of burner. (Fig. 33)
8. Place top right log (SR6) onto locator notches. Ensure log is secure.
9. Place top left log (SR5) onto locator notches. Ensure log is secure.

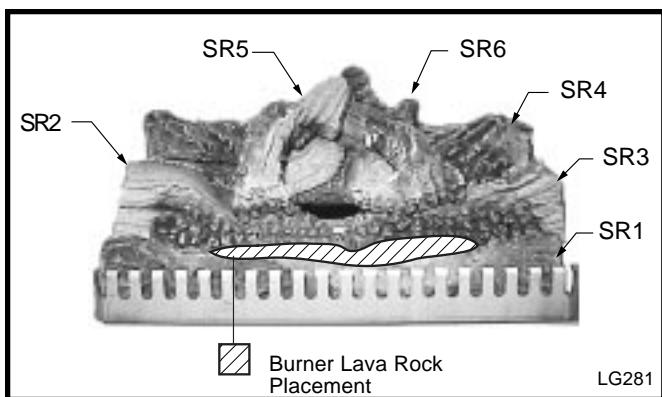


Fig. 33 RFSDV42 log and burner lava rock placement.

Ceramic Refractory

RFSDV42 ONLY

1. Remove bay window assembly and glass frame (see "Glass frame Removal" section).
2. Remove logs from the unit.
3. Remove refractory from packaging.
4. Place center refractory piece at the very back of the firebox.
5. Slide left or right side refractory along the side of the firebox and on top of the bottom support channel. Be sure to slide the panel back to hold the center piece in place and the leading edge faces forward.
6. Fasten top tab support against the refractory to hold it in place.
7. Repeat steps 5 and 6 for remaining side refractory.
8. Insert refractory pieces into the Bay Window as shown in Figure 35.

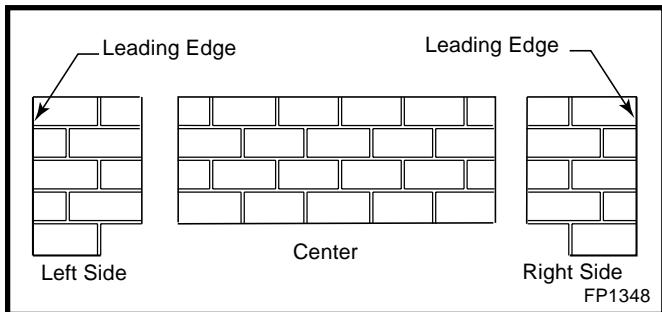


Fig. 34 Ceramic panels.

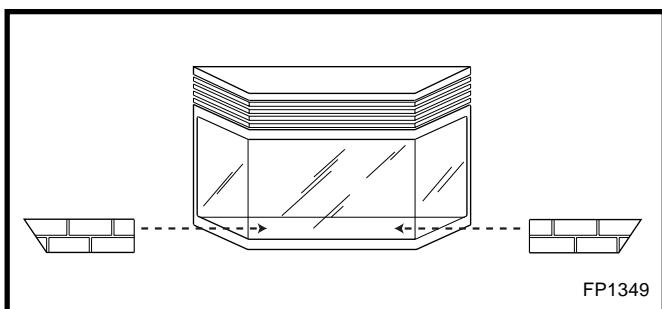


Fig. 35 Bay window ceramic refractory.

Flame Adjustment (RN/RP Models)

For units equipped with Hi/Lo valves, flame adjustment is accomplished by rotating the Hi/Lo adjustment knob located near the centre of the gas control. (Fig. 36 & 37)

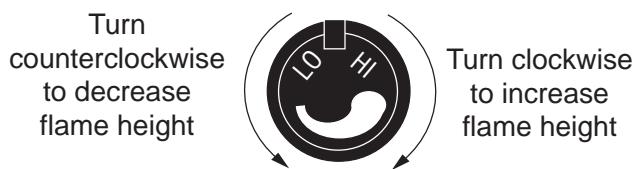


Fig. 36 Flame adjustment knob for Honeywell valve.

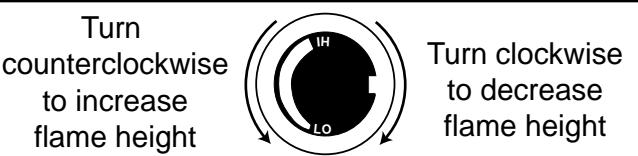


Fig. 37 Flame adjustment knob for SIT valve.

Temperature Adjustment (TN/TP Models)

The Hi/Lo reference on the control knob (Fig. 38) is to indicate a higher or lower temperature setting. This setting controls the heat by reducing then shutting off the flame as the desired temperature is reached. Position the control knob where it effectively maintains a comfortable room temperature.

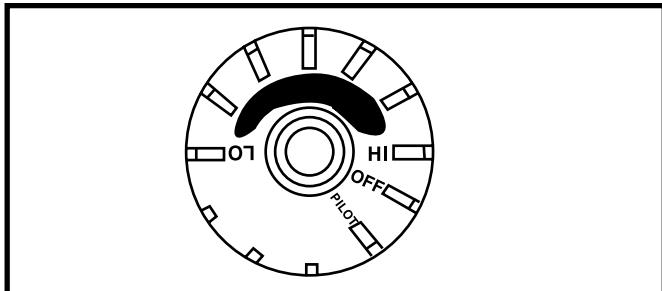


Fig. 38 Temperature adjustment knob for TN/TP models.

Flame Characteristics

It is important to periodically perform a visual check of the pilot and the burner flames. Compare them to the Figures 39, 40 and 41. If any of the flames appear abnormal call a service person.

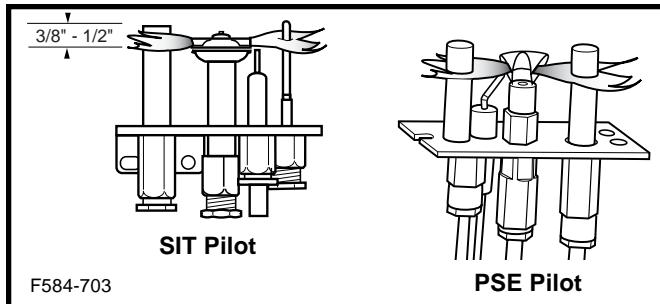


Fig. 39 Correct pilot flame appearance.

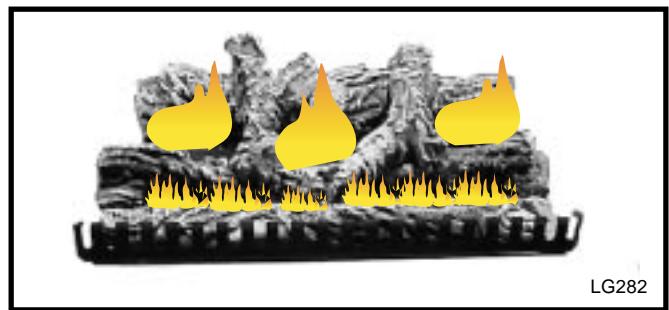


Fig. 40 Correct burner flame appearance for RFSDV22 and RFSDV32.

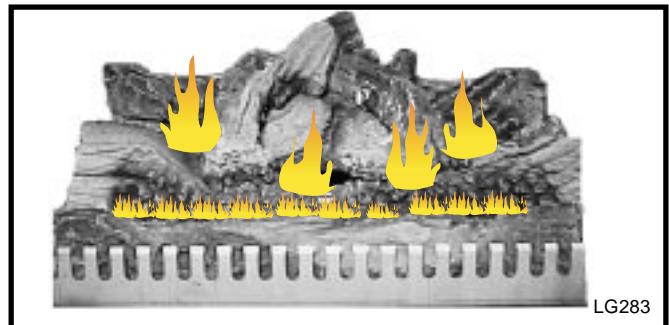


Fig. 41 Correct burner flame appearance for RFSDV42.

Lighting And Operating Instructions

FOR YOUR SAFETY READ BEFORE LIGHTING

WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

- A. This heater has a pilot which must be lit manually. When lighting the pilot follow these instructions exactly.
- B. BEFORE LIGHTING smell all around the heater area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS

- Do not try to light any fireplace
- Do not touch any electric switch
- Do not use any phone in your building
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's

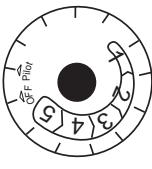
instructions.

- If you cannot reach your gas supplier, call the Fire Department

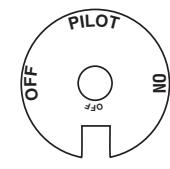
- C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, do not try to repair it, call a qualified service technician. Applying force or any attempted repair may result in a fire or explosion.
- D. Do not use this fireplace if any part has been under water. Immediately call a qualified service technician to inspect the heater and to replace any part of the control system and any gas control which has been under water.

Lighting Instructions

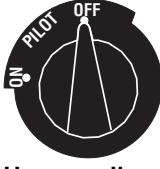
1. **STOP!** Read the safety information above.
2. Turn off all electrical power to the fireplace.
3. For MN/MP/TN/TP appliances ONLY, go on to Step 4. For RN/RP appliances turn the On/Off switch to "OFF" position or set thermostat to lowest level.
4. Open control access panel.
5. Push in gas control knob slightly and turn clockwise  to "OFF".



Euro SIT



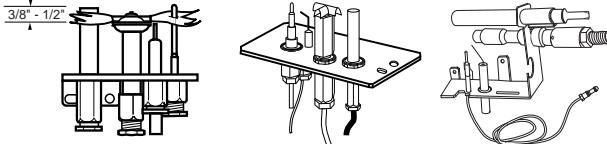
SIT NOVA



Honeywell

6. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, **STOP!** Follow "B" in the safety information above. If you do not smell gas, go to the next step.
7. Remove glass door before lighting pilot. (See Glass Frame Removal section).
8. Visibly locate pilot by the main burner.
9. Turn knob on gas control counterclockwise  to "PILOT".

10. Push the control knob all the way in and hold. Immediately light the pilot by repeatedly depressing the piezo spark ignitor until a flame appears. Continue to hold the control knob in for about one (1) minute after the pilot is lit. Release knob and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 5 through 8.



- If knob does not pop up when released, stop and immediately call your service technician or gas supplier.
- If after several tries, the pilot will not stay lit, turn the gas control knob to " " and call your service technician or gas supplier.

11. Replace glass door.
12. Turn gas control knob to "ON" position.
13. For RN/RP appliances turn the On/Off switch to "ON" position or set thermostat to desired setting.
14. Turn on all electrical power to the fireplace.

To Turn Off Gas To Heater

1. Turn the On/Off switch to "OFF" position or set the thermostat to lowest setting.
2. Turn off all electric power to the fireplace if service is to be performed.
3. Open control access panel.
4. Push in gas control knob slightly and turn clockwise  to "OFF". Do not force.
5. Close control access panel.

Troubleshooting the Gas Control System

SIT 630 Gas Valve

NOTE: Before trouble shooting the gas control system, be sure external gas shut off is in the "On" position.

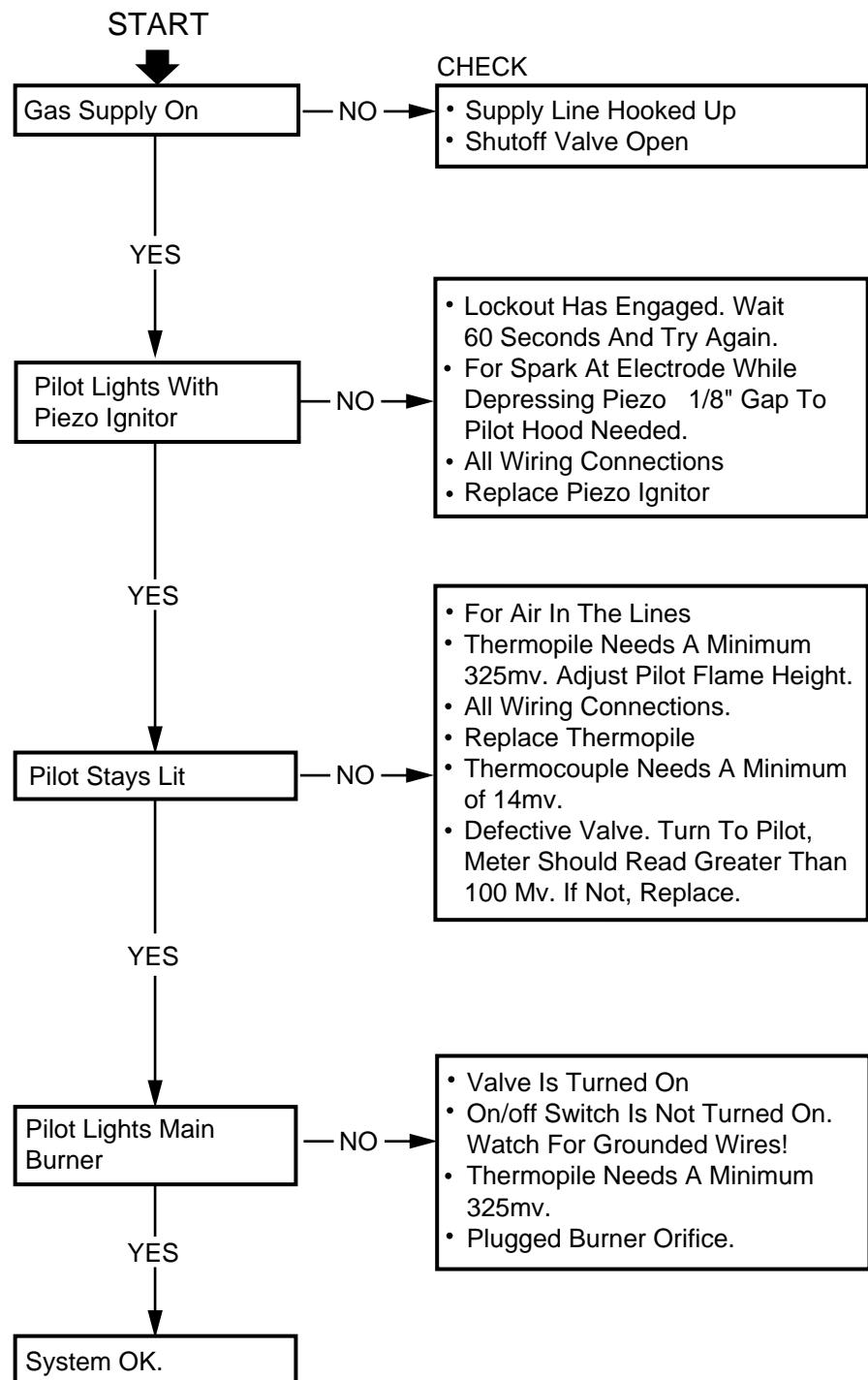


WARNING: Before doing any gas control service work, remove glass front.

| Symptom | Possible Causes | Corrective Action |
|---|---|--|
| 1. Spark ignitor will not light | A. Defective or misaligned electrode at pilot. | Using a match, light pilot. If pilot lights, turn off pilot and push the red button again. If pilot will not light - check gap at electrode and pilot-should be 1/8" to have a strong spark. |
| | B. Defective ignitor (Push Button) | Push Piezo Ignitor Button. Check for spark at electrode and pilot. If no spark to pilot, and electrode wire is properly connected, replace ignitor. |
| 2. Pilot will not stay lit after carefully following lighting instructions. | A. Defective pilot generator thermocouple. | Check pilot flame. Must impinge on thermocouple. Clean and or adjust pilot for maximum flame impingement on thermocouple. |
| | B. Defective automatic valve operator. | Turn valve knob to "Pilot". Maintain flow to pilot; millivolt meter should read greater than 10 mV. If the reading is okay and the pilot does not stay on, replace the gas valve. Note: An interrupter block (not supplied) must be used to conduct this test. |
| 3. Pilot burning, no gas to burner, Valve knob "ON". | A. Sensing bulb not in proper location. | Make sure sensing bulb is located in bracket on the lower right hand side of fireplace. |
| | B. Temperature sensing bulb damaged or tubing to bulb kinked | Carefully examine sensing bulb and capillary tube for damage. If tubing is kinked, replace gas valve. |
| 4. Frequent pilot outage problem. | A. Pilot flame may be too low or blowing (high) causing the pilot safety to drop out. | Clean and/or adjust pilot flame for maximum flame impingement on thermocouple. |
| | B. Possible blockage of the vent terminal. | Check the vent terminal for blockage (recycling flue gases). |

Troubleshooting the Gas Control System

Honeywell Millivolt Valve



Troubleshooting the Gas Control System

SIT NOVA 820 Millivolt Valve

NOTE: Before trouble shooting the gas control system, be sure external gas shut off is in the "On" position.

WARNING: Before doing any gas control service work, remove glass front.

| SYMPTOM | POSSIBLE CAUSES | CORRECTIVE ACTION |
|---|---|--|
| 1. Spark ignitor will not light | A. Defective or misaligned electrode at pilot. | Using a match, light pilot. If pilot lights, turn off pilot and push the red button again. If pilot will not light - check gap at electrode and pilot-should be 1/8" to have a strong spark. |
| | B. Defective ignitor (Push Button) | Push Piezo Ignitor Button. Check for spark at electrode and pilot. If no spark to pilot, and electrode wire is properly connected, replace ignitor. |
| 2. Pilot will not stay lit after carefully following lighting instructions. | A. Defective pilot generator (thermocouple), remote wall switch. | Check pilot flame. Must impinge on thermo couple/thermopile. Note: this pilot burner assembly utilizes both a thermocouple and a thermopile. The thermocouple operates the main valve operation (On and Off). Clean and or adjust pilot for maximum flame impingement on thermopile and thermocouple. |
| | B. Defective automatic valve | Turn valve knob to "Pilot". Maintain flow to pilot; millivolt meter should read greater than 10 mV. If the reading is okay and the pilot does not stay on, replace the gas valve. Note: An interrupter block (not supplied) must be used to conduct this test. |
| 3. Pilot burning, no gas to main burner | A. Wall switch or wires defective | Check wall switch and wires for proper connections. Jumper wire across terminals at wall switch, if burner comes on, replace defective wall switch. If okay, jumper wires across wall switch wires at valve, if burner comes on, wires are faulty or connections are bad. |
| | B. Thermopile may not be generating sufficient millivoltage. | <ol style="list-style-type: none"> 1. Be sure wire connections from thermopile at gas valve terminals are tight and thermopile is fully inserted into pilot bracket. 2. One of the wall switch wires may be grounded. Remove wall switch wires from valve terminals if pilot now stays lit, trace wall switch wiring for ground. May be grounded to fireplace or gas supply. 3. Check thermopile with millivolt meter. Take reading at thermopile terminals of gas valve. Should read 250-300 millivolts (minimum 150) while holding valve knob depressed in pilot position and wall switch "Off". Replace faulty thermopile if reading is below specified minimum. |
| | C. Plugged burner orifice. | Check burner orifices for debris and remove. |
| | D. Defective automatic valve operator. | Turn valve knob to "On", place wall switch to "On" millivolt meter should read greater than 100 mV. If the reading is okay and the burner does not come on, replace the gas valve. |
| 4. Frequent pilot outage problem. | A. Pilot flame may be too low or blowing (high) causing the pilot safety to drop out. | Clean and/or adjust pilot flame for maximum flame impingement on thermopile and thermocouple. |
| | B. Possible blockage of the vent terminal. | Check the vent terminal for blockage (recycling the flue gases) |

Maintenance

Burner and Burner Compartment

It is important to keep the burner and the burner compartment clean. At least once per year the logs and lava rock/ember material should be removed and the burner compartment vacuumed and wiped out. Remove and replace the logs as per the instructions in this manual.



Always handle the logs with care as they are fragile and may also be hot if the fireplace has been in use.

Fan Assembly

The fan unit requires periodic cleaning. At least once per month in the operating season, open the lower louvre panels and wipe or vacuum the area around the fan to remove any build up of dust or lint.

Cleaning the Standing Pilot Control System

The burner and control system consists of:

- main burner
- pilot burner
- gas orifice
- thermopile
- combination millivolt gas valve

Most of these components may require only an occasional checkup and cleaning and some may require adjustment. If repair is necessary, it should be performed by a qualified technician.

In order to properly clean the burner and pilot assembly, turn off the gas to the unit, remove the window frame panel and logs exposing the burner and pilot assembly. Clean all foreign materials from the top of the burner. Check to make sure that burner parts are clean.

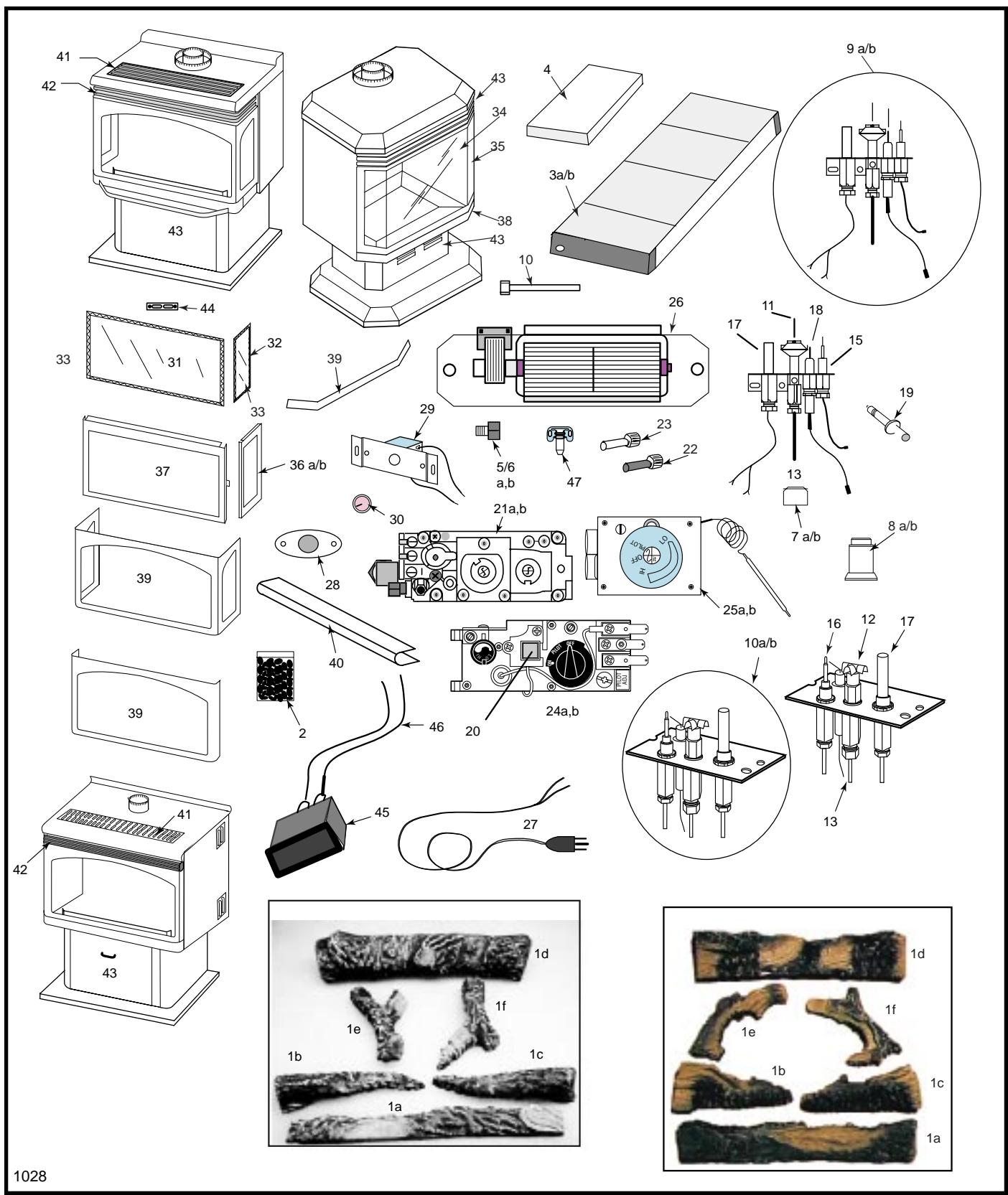
Visually inspect pilot. Brush or blow away any dust or lint accumulation. If pilot orifice is plugged, disassembly may be required to remove any foreign material from the orifice or tubing.

To obtain proper operation, it is imperative that the pilot and burner's flame characteristics are steady, not lifting or floating.

Typically, the top 1/8" of the thermopile should be engulfed in the pilot flame. (Page 19, Fig. 39)

Brass Cleaning

Clean the brass trim with a soft clean cloth, slightly dampened with lemon oil and buff with a soft dry cloth. Do not use brass polish or household cleaners as these products will damage the trim. Lemon oil can be obtained at supermarkets or hardware stores.



1028

CFM Specialty Home Products reserves the right to make changes in design, materials, specifications, prices and discontinue colors and products at any time, without notice.

RFSDV22/32/42 Series

RFSDV22/32/42 Series (continued)

| Ref. Description | RFSDV22 | RFSDV32 | RFSDV42 |
|---------------------------------------|-----------------------------------|----------|----------|
| 1. Log Set Complete | 10000160 | 10000160 | 10000205 |
| 1a. Log Ember Front | KR1 | KR1 | SR1 |
| 1b. Log Front Left | KR2 | KR2 | SR2 |
| 1c. Log Front Right | KR3 | KR3 | SR3 |
| 1d. Log Rear | KR4 | KR4 | SR4 |
| 1e. Log Top Left | KR5 | KR5 | SR5 |
| 1f. Log Top Right | KR6 | KR5 | SR6 |
| 2. Burner Lava Rock (Package) | 57897 | 57897 | 57897 |
| 3a. Burner with Tiles Nat. | 57903 | 57903 | 10000866 |
| 3b. Burner with Tiles Prop. | 57904 | 57904 | 10000867 |
| 4. Ceramic Tile (Single) | 57803 | 57803 | 57803 |
| 5a. Orifice Front Nat. | See Rating Plate for Orifice Size | | |
| 5b. Orifice Front Prop. | See Rating Plate for Orifice Size | | |
| 6a. Orifice Main Nat. | See Rating Plate for Orifice Size | | |
| 6b. Orifice Main Prop. | See Rating Plate for Orifice Size | | |
| 7a. Orifice Pilot SIT Nat. | 54273 | 54273 | 54273 |
| 7b. Orifice Pilot SIT Prop. | 54272 | 54272 | 54272 |
| 8a. Orifice Pilot PSE Nat. | 10001822 | 10001822 | 10001822 |
| 8b. Orifice Pilot PSE Prop. | 10001823 | 10001823 | 10001823 |
| 9a. Pilot Assembly SIT Nat. | 10000674 | 10000674 | 10000674 |
| 9b. Pilot Assembly SIT Prop. | 10000675 | 10000675 | 10000675 |
| 10a. Pilot Assembly PSE Nat. | 10001741 | 10001741 | 10001741 |
| 10b. Pilot Assembly PSE Prop. | 10001742 | 10001742 | 10001742 |
| 11. Pilot SIT | 10001295 | 10001295 | 10001295 |
| 12. Pilot w/ignitor and cable PSE | 10001824 | 10001824 | 10001824 |
| 13. Pilot Tubing w/fittings | 53211 | 53211 | 53211 |
| 14. Manifold Tubing w/fittings | 57318 | 57318 | 57318 |
| 15. Thermocouple SIT | 53373 | 53373 | 53373 |
| 16. Thermocouple PSE | 10001825 | 10001825 | 10001825 |
| 17. Thermopile | 51827 | 51827 | 51827 |
| 18. Electrode Ignitor w/cable SIT | 10001297 | 10001297 | 10001297 |
| 19. Ignitor Piezo SIT | 52464 | 52464 | 50932 |
| 20. Ignitor Piezo Honeywell | 20000062 | 20000062 | 20000062 |
| 21a. Valve SIT 820 Nat. | 52677 | 52677 | 52677 |
| 21b. Valve SIT 820 Prop. | 52678 | 52678 | 52678 |
| 22. Extension Knob Hi/Lo SIT (RN/RP) | 10000165 | 10000165 | 55162 |
| 23. Extension Knob On/Off SIT (RN/RP) | 10000166 | 10000166 | 55163 |
| 24a. Valve Honeywell Nat. | 10001782 | 10001782 | 10001782 |
| 24b. Valve Honeywell Prop. | 10001759 | 10001759 | 10001759 |
| 25a. Valve Eurosit 630 Nat. | 53448 | 53448 | 53448 |
| 25b. Valve Eurosit 630 Prop. | 53446 | 53446 | 53446 |
| 26. Fan with Bracket | 54103 | 54103 | 54103 |
| 27. Electrical Cord (6ft.) | 51865 | 51865 | 51865 |
| 28. Fan Temperature Sensor | 51704 | 51704 | 51704 |
| 29. Speed Control | 51738 | 51738 | 51738 |
| 30. Speed Control Knob | 51882 | 51882 | 51882 |
| 31. Glass with Gasket - Front | 52035 | 52035 | 57581 |
| 32. Glass with Gasket - Side | — | 52032 | — |
| 33. Gasket Glass | 57316 | 57316 | 57317 |
| 34. Glass Bay Window - Front | — | — | 57477 |
| 35. Glass Bay Window - Sides | — | — | 57478 |
| 36a. Frame Window - Left Side | — | 52145 | — |

RFSDV22/32/42 Series (continued)

| Ref. | Description | RFSDV22 | RFSDV32 | RFSDV42 |
|-------------|---|----------------|----------------|----------------------|
| 36b. | Frame Window - Right Side | — | 52860 | — |
| 37. | Frame Window - Front | 57244 | 57244 | 57590 |
| 38. | Bay Window Assy. (w/glass) | — | — | 57593 |
| 39. | Trim Frame Window (PB) | 53477 | 52027 | 57583 ⁽¹⁾ |
| 40. | Trim Front Louvre (PB) | 53455 | — | — |
| 41. | Top Louvre | 57262 | 52019 | — |
| 42. | Front Louvre Assembly | 57259 | 57908 | 57591 |
| 43. | Access Door Assembly (with handle) | 53990 | 52030 | 57592 |
| 44. | Latch | 52057 | 52057 | 52057 |
| 45. | Remote Switch | 53606 | 53606 | 53606 |
| 46. | Remote Wire Harness with Terminals | 10002582 | 10002582 | 100025820 |
| 47. | Clamp Frame Window | — | — | 54174 |
| 48. | Ceramic Refractory Lining Kit (Not Shown) | — | — | 10000846 |
| 49. | Ceramic Refractory Bay (ONLY Bay Set) (Not Shown) | — | — | 10000847 |

Accessories

Fan Kits

FK24

Standard on RFSDV42



It will be easier to install the fan before connecting the gas line to the fireplace.

1. Open front access door panel by pulling forward on brass lip.
2. Install the fan through the opening at the back of the pedestal, with the outlet pointed up and the fan mounting bracket facing the back of the fireplace. (Fig. 43) The fan mounts over two studs which hold the fan just below the firebox floor. Hold the fan in place with the two nuts provided.
3. Locate the fan speed control/junction box on screw studs provided on base of the fireplace. Tighten with nuts.
4. Install thermal sensor element on screw studs located to the right of the gas valve on the burner base.
5. Plug in grounded service cord to a convenient wall receptacle.



This fan assembly comes completely wired to eliminate the need for electricians. This electrical device, when installed, must be electrically connected and grounded in accordance with local codes. In the absence of local codes, with the current CSA C22.1 CANADIAN ELECTRICAL CODE.

For U.S.A. installation: Follow local codes and the NATIONAL ELECTRICAL CODE ANSI/NFPA No.70-1984.

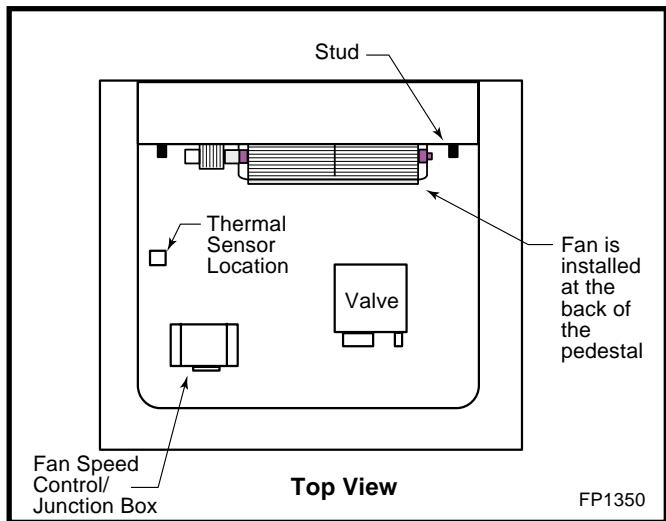


Fig. 43 FK24 placement.



Should this fan require servicing, the power supply must be disconnected. For rewiring of any replacement components. (Fig. 42)

Remote Control

Only for units with RN/RP valve.

| Model | Function(s) Controlled |
|-------|--|
| MRC1 | On/Off Button Remote Control |
| MRC2 | Temperature Control Remote |
| MRC3 | Temperature Control w/digital display & 24 hour programmable clock |
| IMT | Wall Mounted Thermostat |

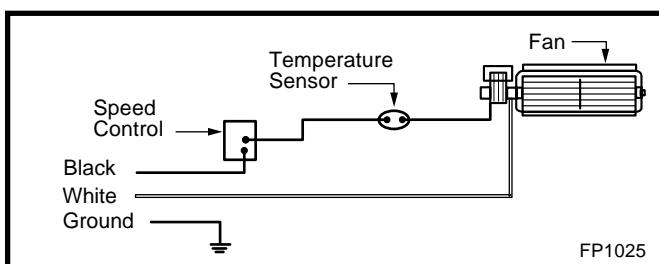


Fig. 42 FK24 fan wiring.

For Use in Mobile Homes - Model RFSDV32RMH

This appliance may be installed as an OEM installation in a manufactured (mobile) home and must be installed in accordance with the manufacturer's instructions and the manufactured home construction and safety standard, Title 24 CFR, Part 3280 or Standard for Installation in Mobile Homes, CAN/CSA Z240 MH.

This appliance is only for use with the type(s) of gas indicated on the rating plate. A conversion kit is supplied with the appliance.

This gas fireplace should be installed by a qualified installer in accordance with local building codes and with current CSA-B149.1 Installation codes for Gas Burning Fireplaces and Equipment and CAN/CSA Z 240 .4 Canada.

A manufactured home (mobile home) OEM installation must conform with the Manufactured Home Construction and Safety Standard, *Title 24 CFR, Part 3280*, or when such a standard is not applicable, the Standard for *Manufactured Home installations, ANSI/INCSBCS A225.1*, or Standard for *Gas Equipped Recreational Vehicles and Mobile Housing CSA Z240.4*.

The appliance when installed, must be electrically grounded in accordance with local codes or, in the absence of local codes, with the *National Electrical Code, ANSI/NEPA 70*, or the *Canadian Electrical Code, CSA C22.1*.

For safe installation and operation please note the following:

1. This fireplace gives off high temperatures and should be located out of high traffic areas and away from furniture and draperies.
2. Children and adults should be alerted to the hazards of the high surface temperatures of this fireplace and should stay away to avoid burns or ignition of clothing.
3. Children should be carefully supervised when they are in the same room as your fireplace.
4. Under no circumstances should this fireplace be modified. Parts removed for servicing should be replaced prior to operating this fireplace again.
5. Installation and any repairs to this fireplace should be carried out by a qualified service person. A professional service person should be contacted to inspect this fireplace annually. Make it a practice to have all of your gas fireplaces checked annually. More frequent cleaning may be required due to excess lint and dust from carpeting, bedding material, etc.
6. Control compartments, burners and air passages in this fireplace should be kept clean and free of dust and lint. Make sure that the gas valve and pilot light are turned off before you attempt to clean this fireplace.
7. The venting system(chimney) of this fireplace should be checked at least once a year and if needed your venting system should be cleaned.
8. Keep the area around your fireplace clear of combustible materials, gasoline and other flammable vapour and liquids. This fireplace should not be used as a drying rack for clothing, nor should Christmas stockings or decorations be hung in the area of it.
9. Under no circumstances should any solid fuels (wood, coal, paper or cardboard etc.) be used in this fireplace.
10. The flow of combustion and ventilation air must not be obstructed in any way.

11. When the fireplace is installed directly on carpeting, vinyl tile or any combustible material other than wood, the fireplace must be installed on a metal or wood panel extending the full width and depth of the fireplace.

12. This fireplace requires adequate ventilation and combustion air to operate properly.

NOTE: The RFSDV32RMH must be firmly attached to the building.

Conversion Instructions

1. Disconnect power to the unit and shut off the gas supply.
2. Remove the glass (see "Glass Removal" section).
3. Carefully remove the logs
4. Remove the pilot assembly from bracket.
5. Remove the screws which are holding the burner housing in place.
6. Remove the burner housing.
7. Remove the main and front orifice and replace with the orifice supplied in the conversion kit. Use the small orifice size for the front burner and the bigger orifice size for the main burner.
8. Remove the compression fitting which holds the aluminum tubing in the pilot assembly. This will reveal the pilot orifice which must be replaced with the one provided in the conversion kit.
9. **Units with SIT valve** (See pictures in the installation instructions supplied with the kit):
 - a) Using a Torx T20 or slotted screwdriver, remove and save the three pressure regulator mounting screws (A), pressure regulator tower (B) and diaphragm (C).
 - b) Ensure the rubber gasket (D) is properly positioned and install the new Hi/Lo pressure regulator to the valve using the new screws (E) supplied with the kit. Tighten screws securely. (Reference torque - 25 in.Lb).
 - c) Install the enclosed identification label (F) to the valve body where it can be easily seen.

Units with Honeywell valve:

The Honeywell valve fitted to this unit is preset for LP gas. It is convertible to natural gas by the installation of a color coded "conversion screw". To insert the conversion screw refer to the instructions and diagrams in the Honeywell Installation Instructions supplied in the conversion kit packaged with the RFSDV32RMH unit.

10. Reassemble the fireplace in the reverse order, except for the front glass. Leave this off until the unit has been checked for leaks and the gas supply line has been bled.
11. After bleeding the gas line and checking for leaks with a soap solution, replace the front glass. Fire up the unit, check for flame impingement on the logs, adjusting them if necessary. Check the manifold and supply pressures.

Refer to the Troubleshooting and Parts List earlier in this manual if further assistance is required.

LIMITED LIFETIME WARRANTY

PRODUCT COVERED BY THIS WARRANTY

All Vermont Castings gas stoves, gas inserts, and gas fireplaces, and all Majestic or Northern Flame brand gas fireplaces equipped with an Insta-Flame Ceramic Burner, or standard steel tube burner.

BASIC WARRANTY

CFM Specialty Home Products (hereinafter referred to collectively as the Company) warrants that your new Vermont Castings or Majestic Gas Fireplace/Stove is free from manufacturing and material defects for a period of one year from the date of purchase, subject to the following conditions and limitations.

EXTENDED LIFETIME WARRANTY

The heat exchanger, where applicable, and combustion chamber of every Vermont Castings or Majestic gas product is warranted for life against through wall perforation. All appliances equipped with an Insta-Flame Ceramic Burner have limited lifetime coverage on the ceramic burner plaque. Warranties are made to the original owner subject to proof of purchase and the conditions and limitations listed on this Warranty Document

COMPONENT WARRANTY

CAST IRON: All external and internal cast iron parts are warranted for a period of three years.

Note: On porcelain enamel finished external parts and accessories The Company offers no Warranty on chipping of enamel surfaces. Inspect all product prior to accepting it for any damage to the enamel.

The salt air environment of coastal areas or a high humidity environment can be corrosive to the porcelain enamel finish.

These conditions can cause rusting of the cast iron beneath the porcelain enamel finish, which will cause the finish to flake off.

Dye lot variations with replacement parts and/or accessories can occur and are not covered by warranty.

GLASS DOORS: Glass doors are covered for a period of one year. Glass doors are not warranted for breakage due to misuse or accident. Glass doors are not covered for discoloration or burned in stains due to environmental issues, or improper cleaning and maintenance.

BRASS PLATED PARTS AND ACCESSORIES: Brass parts should be cleaned with Lemon oil only. Brass cleaners cannot be used. Mortar mix and masonry cleaners may corrode the brass finish. The Company will not be responsible for, nor will it warrant any brass parts which are damaged by external chemicals or down draft conditions.

GAS VALVES: Gas valves are covered for a period of one year

ELECTRONIC AND MECHANICAL COMPONENTS: Electronic and mechanical components of the burner assembly are covered for one year. All steel tube burners are warranted for one year.

ACCESSORIES: Unless otherwise noted all components and CFM Specialty Home Products company supplied accessories are covered for a period of one year.

CONDITIONS AND LIMITATIONS

- This new Vermont Castings or Majestic product must be installed by a competent, authorized, service contractor. A licensed technician, as prescribed by the local jurisdiction must perform any installation/service work. It must be installed and operated at all times in accordance with the Installation and Operating instructions furnished with the product. Any alteration, willful abuse, accident, or misuse of the product shall nullify this warranty.
- This warranty is non-transferable, and is made to the original owner, provided that the purchase was made through an authorized supplier of the Company.
- The customer must pay for any Authorized Dealer in-home travel fees or service charges for in-home repair work. It is the dealers option whether the repair work will be done in the customer's home or in the dealer's shop.
- If upon inspection, the damage is found to be the fault of the manufacturer, repairs will be authorized at no charge to the customer

parts and/or labor.

- Any part and/or component replaced under the provisions of this warranty is covered for six months or the remainder of the original warranty, whichever is longest.
- This warranty is limited to the repair of or replacement of part(s) found to be defective in material or workmanship, provided that such part(s) have been subjected to normal conditions of use and service, after said defect is confirmed by the Company's inspection.
- The company may, at its discretion, fully discharge all obligations with respect to this warranty by refunding the wholesale price of the defective part(s)
- Any installation, labor, construction, transportation, or other related costs/expenses arising from defective part(s), repair, replacement, or otherwise of same, will not be covered by this warranty, nor shall the Company assume responsibility for same. Further, the Company will not be responsible for any incidental, indirect, or consequential damages except as provided by law.
- SOME STATES DO NOT ALLOW FOR THE EXCLUSION OR LIMITATIONS OF INCIDENTAL AND CONSEQUENTIAL DAMAGES OR LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOUR CIRCUMSTANCES. THIS WARRANTY GIVES YOU SPECIFIC RIGHTS AND YOU MAY HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.*
- All other warranties-expressed or implied- with respect to the product, its components and accessories, or any obligations/liabilities on the part of the Company are hereby expressly excluded.
- The Company neither assumes, nor authorizes any third party to assume on its behalf, any other liabilities with respect to the sale of this Vermont Castings or Majestic product
- The warranties as outlined within this document do not apply to chimney components or other non CFM Specialty Home Products accessories used in conjunction with the installation of this product..
- Damage to the unit while in transit is not covered by this warranty but is subject to claim against the common carrier. Contact the dealer from whom you purchased your fireplace/stove (do not operate the appliance as this might negate the ability to process the claim with the carrier).
- The Company will not be responsible for:
 - Down drafts or spillage caused by environmental conditions such as near-by trees, buildings, roof tops, hills, or mountains.
 - Inadequate ventilation or negative air pressure caused by mechanical systems such as furnaces, fans, clothes dryers, etc.
- This warranty is void if:
 - The fireplace has been operated in atmospheres contaminated by chlorine, fluorine, or other damaging chemicals.
 - The fireplace has been subjected to prolonged periods of dampness or condensation
 - Any damages to the fireplace, combustion chamber, heat exchanger or other components due to water, or weather damage, which is the result of but not limited to, improper chimney/venting installation.
 - Any alteration, willful abuse, accident, or misuse of the product has occurred.

IF WARRANTY SERVICE IS NEEDED...

- Contact your supplier. Make sure you have your warranty, your sales receipt, and the model/serial number of your CFM Specialty Home Products product.
- DO NOT ATTEMPT TO DO ANY SERVICE WORK YOURSELF.